JVC

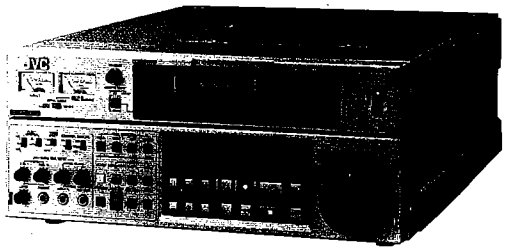
SERVICE MANUAL

VIDEO CASSETTE RECORDER

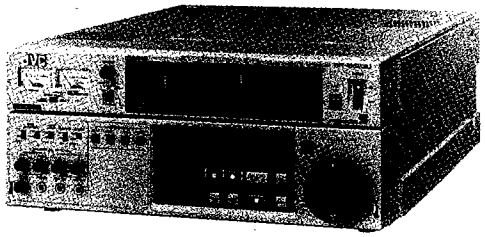
[SUPPLEMENT]

BR-S822U/BR-S622U/BR-S522U/ BR-S525U

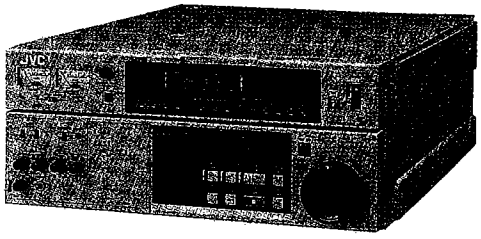
— BR-S822U —



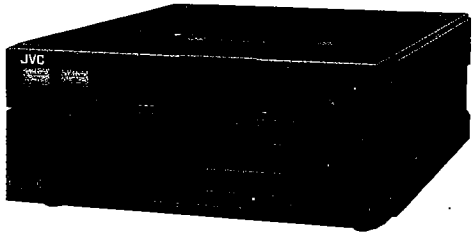
— BR-S622U —



— BR-S522U —



— BR-S525U —



S-VHS S-VHS C VHS VHS C Hi-Fi

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March 1995

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▒) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

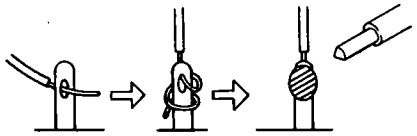


Fig. 1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10–15 kg of force in any direction will not loosen it.

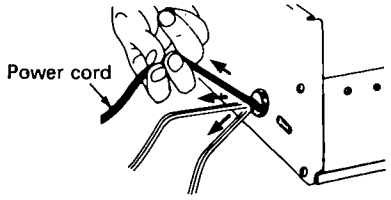


Fig. 2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

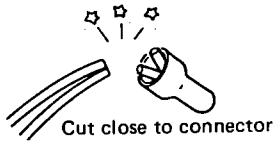


Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

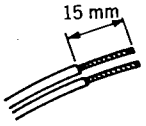


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

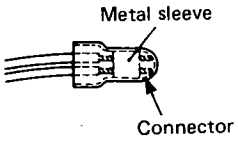


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

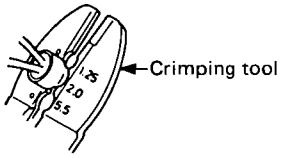


Fig. 6

(5) Check the four points noted in Fig. 7.

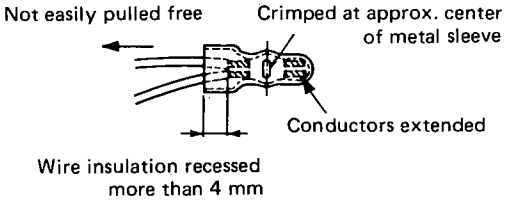

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig. 7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

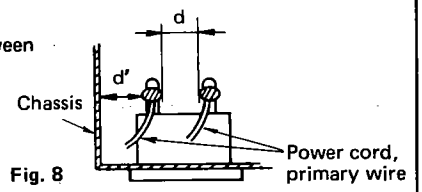


Fig. 8

4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

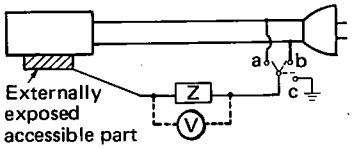


Fig. 9

5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

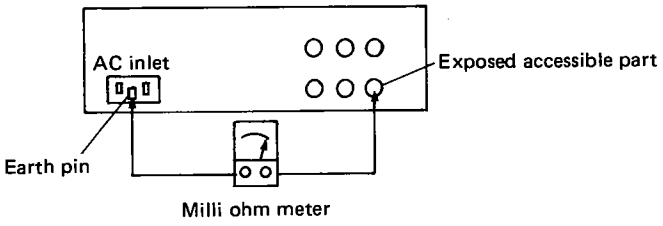


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R≧1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	–	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R≧10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
GENERAL DESCRIPTION

1.1 DETAIL OF ALTERATIONS

Recent products of the BR-S822U/BR-S622U/BR-S522U/BR-S525U have undergone alteration in the mechanism assembly and the FM AUDIO circuit for improvement of the workability and reliability.
The following table shows changes in the main parts with the serial numbers that are subject to the alterations of this time. For changes in exploded views and parts list, refer to the SECTION 5.

Note : This service manual mentions the parts that are changed this time and the replacing procedure of them, etc. Therfore, use this service manual together with the service manuals issued for the respective models.
Service manual No.9246C : BR-S822U, BR-S622U, BR-S522U
Service manual No.9272 : BR-S525U

		BR-S822U BR-S622U	BR-S522U	BR-S525U
Change in mechanism assembly	Main deck	Main deck used in BR-S800/BR-S500 serves in common.		
	Pinch roller solenoid	Peripheral parts of pinch roller, loading motor, etc. are changed. (to improve maintenance efficiency).		
	A/C head	Peripheral parts are changed to reduce off azimuth of A/C head after adjustment.		
	Full erase head	Head base is added with change of main deck.		
	Tension release solenoid	Removed		
	M-CTL/REEL SERVO board assembly	Change of software with removal of tension release solenoid.※1		
		IC1 : Change to PGD30241C-10-9		IC1 : Change to PGD30241C-11-13
	DECK TERMINAL board assembly	Some parts are removed with removal of tension release solenoid. (CN103, CN104, D101, D102)		
Change in audio circuit	MOTHER-1 board assembly	PRK10113F-01	PRK10113B-01	PRK10149D
	MOTHER-2 board assembly	PRK10111F-01	PRK10111B-02	PRK10111D-02
	AUDIO-3 board assembly	PRK10115A	PRK10115C	
	FM AUDIO PRE/REC AMP board assembly	Removed		
	AVM/ONSC board assembly	PRK20089E		

※1 : The new software is programmed to avoid tape creep by reducing tape tension when the MENU No. 308/309 (LONG PAUSE) is set to "T.RELEASE".

Table 1-1 Changes in main parts

	BR-S822U	BR-S622U	BR-S522U	BR-S525U
MECHANISM assembly	#3601-	#3401-	#0601-	#1031-
AUDIO circuit	#3291-	#3151-	#0401-	#0931-

Table 1-2 Serial numbers subject to changes by model

SECTION 2
MECHANISM ADJUSTMENT

2.1 CHANGES IN MECHANISM ASSEMBLY

In regard of the mechanism assembly, the mechanism used in the BR-S800U/BR-S500U is partially used in the 22 series, too, in order to improve workability in replacing parts such as the loading motor, pinch roller, etc.
The following table shows the main parts of the mechanism assembly with their standard replacement time.
The parts that are changed this time are shaded in the table.
Besides them, the tension release solenoid and parts related to it are removed in the 22 series. For detail of the exploded view and part numbers, etc., refer to the exploded view in the SECTION 5 and parts list.

	No.	Part Name	Part Number	Standard service period				Description
				1000	2000	3000	4000	
Tape transport system	①	Supply guide shaft	—	★	★	★	★	—
	②	Tension arm ass'y	PRD44024B-02					Refer to the service manual issued before this.
	③	Supply guide roller	PRD43721A					
	④	Full erase head	**PGZ01841**					**Addition of head base.**
	⑤	Supply pole base ass'y	PRD30821E					Refer to the service manual issued before this.
	⑥	Supply inertia roller	PGZ01667					
	⑦	Take-up inertia roller	PGZ01667-02	★	★	★	●	
	⑧	Take-up pole base ass'y	**PRD30864B**					**Removing procedure changes with change of A/C head.**
	⑨	A/C head	**PGZ01840**					**Change of head arm shape.**
	⑩	Take-up guide pole	PRD44151A-01					Refer to the service manual issued before this.
	⑪	Guide arm roller ass'y	PRD43404D-04					
	⑫	Capstan shaft	—	★	★	★	★	
	⑬	Pinch roller arm ass'y	**PRD43387A-01**	○	●	○	●	**Removing and reinstalling procedures change.**
	⑭	Drum ass'y	PDV2272D	★	★	○	●	Refer to the service manual issued before this. ***Note :*** ***Carefully remove the drum assembly since there is wiring to the lower drum at the back of the main deck.***
	⑮	Upper drum ass'y	PRD20380D	●	●	●	(●)	
Drive system	⑯	Capstan motor	PGZ01535-01-01				●	
	⑰	Reel motor	PGZ01541A-04				●	
	⑱	Loading motor	**PRD44123A**				●	**With change of assembling way, shape of motor bracket assembly, part numbers of solenoid assembly and other parts are changed.**
	⑲	Loading belt	**PRD30022-17** **PRD30022-18**	●	●	●	●	
	⑳	Cassette motor	PQ45489A				●	Refer to the service manual issued before this.
	㉑	Supply main brake	PRD43388A-02		●		●	
	㉒	Take-up main brake	PRD43395A-02		●		●	
	㉓	Take-up sub brake	PRD43479A-01		●		●	
Others	㉔	Brush ass'y (A)/(B)	PRD43986A/B		●		(●)	
	㉕	Slip ring ass'y	PGZ01872	○	●	○	(●)	
	㉖	Head cleaner	PRD40510-01-02	●	●	●	●	—

★ =Cleaning. ○ =Check and Replace if necessary, or Check and Clean.
● =Replacement. (●)=Included in Drum assy.

Note : This service manual mentions the parts that are changed this time and the replacing procedure of them, etc. Therfore, use this service manual together with the service manuals issued for the respective models.

No.	Item	Adjustment and Check
1	**A/C head (Change)** **— Removal —**	(1) **Tools to prepare:** • **Ordinary screwdriver (−)** • **Nut driver : 5.5mm** (2) Disconnect the connectors from the A/C HEAD board. (3) Remove the taper nut ① for X-value adjustment. (4) Remove the nut ② and then remove the A/C head together with the head base with care not to lose the spring ③. (5) Remove two screws ④ and a screw ⑤ to remove the A/C head. At that time pay careful attention to the spring ⑥ not to lose it. (6) Unsolder the A/C HEAD board and replace the A/C head with new one.

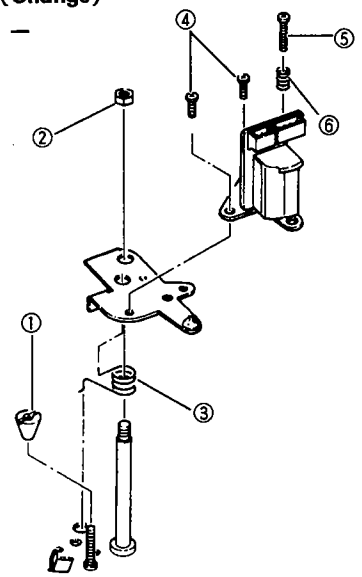


Fig. 2-1

— Reinstallation —

(1) Before assembling the A/C head to the main deck, conduct rough adjustment of the head height as shown in Fig. 2-2.

(2) Assemble the A/C head and its peripheral parts to the main deck in the reverse order of the disassembly.

(3) When fitting the taper nut, temporarily adjust the height as shown in Fig. 2-3.

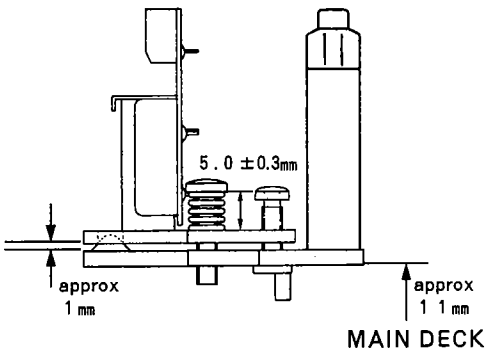


Fig. 2-2

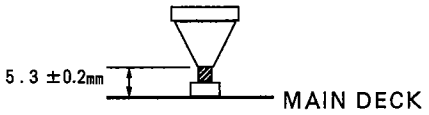
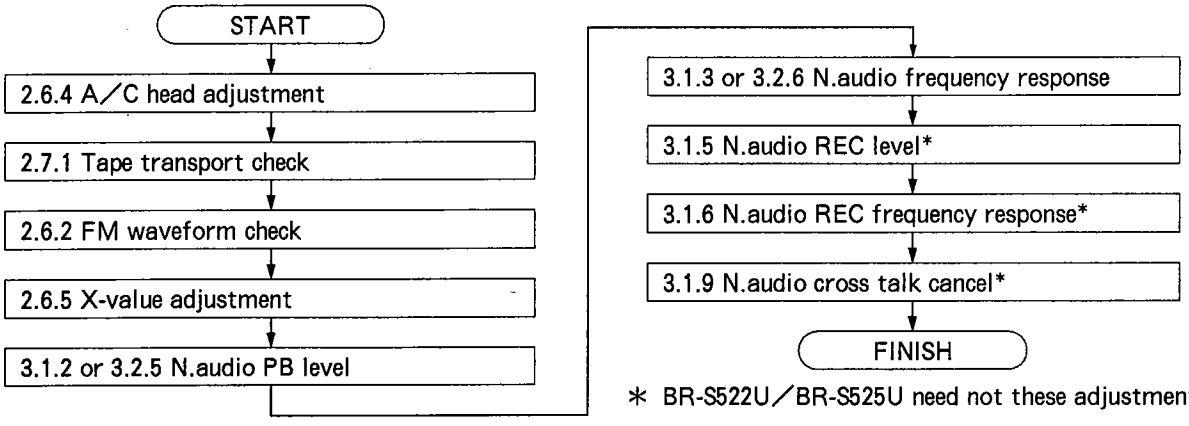


Fig. 2-3

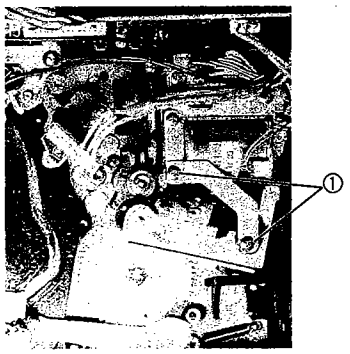
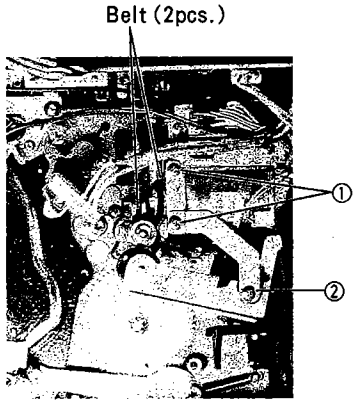
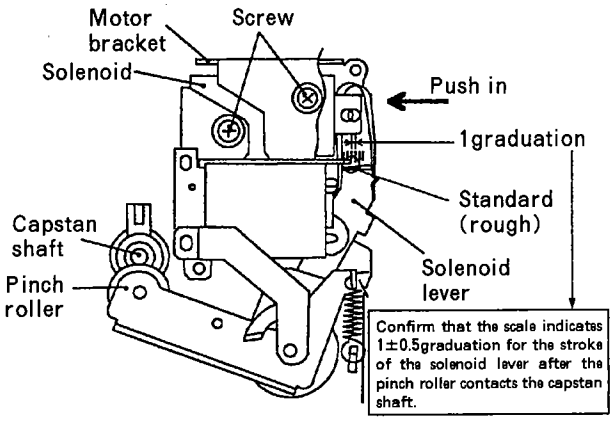
— Check and adjustment —

Note:
Before confirming normal tape transport, do not use any alignment tape to provent it from damage. Make sure to check tape transport with an ordinary recording tape beforehand.

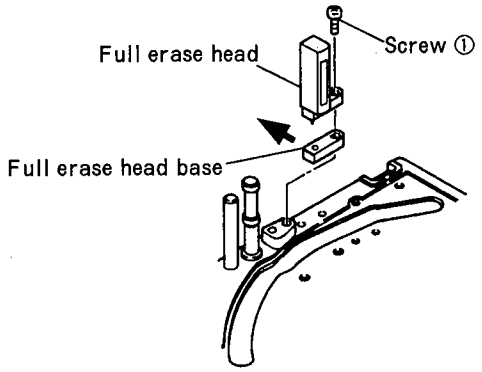
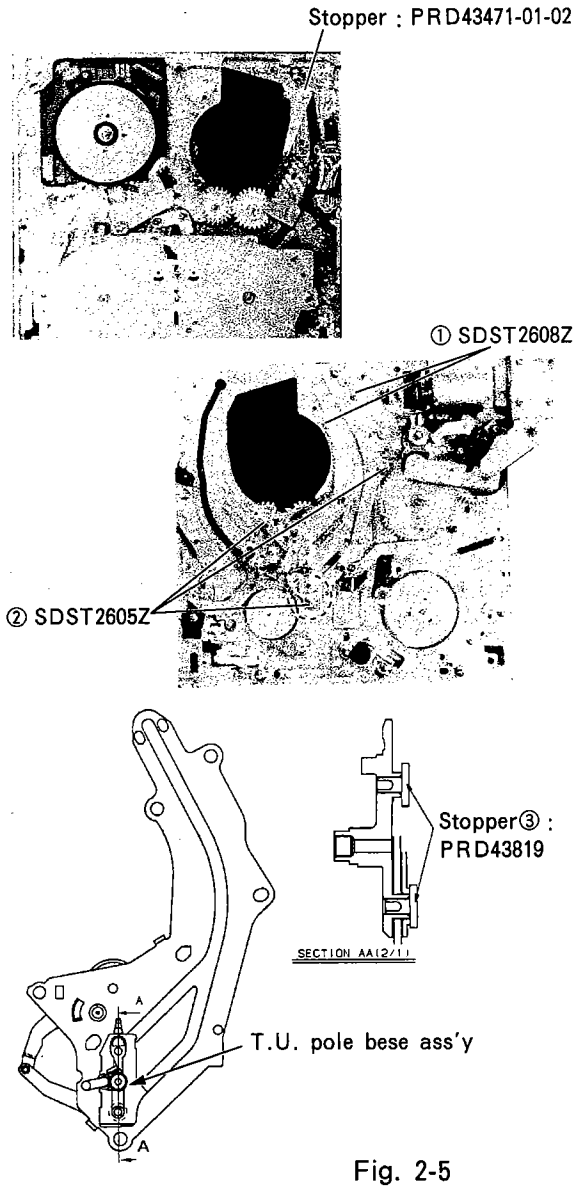


* BR-S522U/BR-S525U need not these adjustments.

Note : This service manual mentions the parts that are changed this time and the replacing procedure of them, etc. Therfore, use this service manual together with the service manuals issued for the respective models.

No.	Item	Adjustment and Check
2	**Pinch roller arm assembly (Change)**  Fig. 2-4	***Note:*** ***Proceed to do the following work in the Assembly mode (see 2.4.1).*** (1) Remove the noise shutter. (BR-S525U only) ***Note: When installing the noise shutter to the pinch roller assembly, make sure to set the pinch roller assembly to downmost position or remove it.*** (2) Remove two scres ① and lift the pinch roller arm assembly upward to remove it. (3) When reinstalling, do it so as to position the cam of the pinch roller assembly on the rail of the solenoid bracket in the assembly mode. (4) Aseemble the noise shutter to the pinch roller arm assembly. (BR-S525U only)
3	**Mode motor (Change)**  Fig. 2-5	(1) Disengage the belt from the motor pulley. (2) Remove two screws ① and one screw ②, then detach the mode motor together with the motor bracket. (3) Remove two screws fixing the mode motor to the motor bracket to detach the motor from the bracket. (4) Unsolder wires and remove the motor from the board.
4	**Pinch roller solenoid position (Addition)**  Fig. 2-6	(1) Turn the mode motor in the direction of loading (toward the rear side) to set the mechanism in the loading end state. (2) Turn the mode motor further in the same direction (rewarward) to move the pinch roller arm to the downmost position. (3) Press down the solenoid lever moreover while checking that the reading of the stroke from the step (2) to the moreover pressed point is 1±0.5 graduation on the scale located on the solenoid lever. (4) When reading is out of 1±0.5 graduation, loosen the two screws and adjust the solenoid position.

Note : This service manual mentions the parts that are changed this time and the replacing procedure of them, etc. Therfore, use this service manual together with the service manuals issued for the respective models.

No.	Item	Adjustment and Check
5	**Full erase head (Addition)**  Fig. 2-4	(1) Remove one screw ①. (2) Disconnect wires from the full erase head and then lift the full erase head for removing. (3) Fix the full erase head and the full erase head base to the main deck with the screw ① as shown in the figure. (4) Check that the full erase head and the base are firmly fixed to the main deck. (5) If the full erase head is in unstable setting, slide the full erase head in the direction of the arrow (away from the drum assembly) and fix it again.
6	**Pole base assembly (Change)**  Fig. 2-5	(1) Remove the mechanism ass'y (see 2.3.8). (2) Remove two stoppers ③ and lift the pole base assembly for removing with care of the collar between the pole base and stopper not to lose it. (3) **Supply pole base** ① Turn the loading motor counterclockwise to set the mechanism to the loading end position. ② After removing the stopper, lift the pole base ass'y upward while removing it. (4) **Take-up pole base** ① Remove the A/C head ass'y. ② Remove two screws ① and three screws ②, then take the T.U. loading ass'y away. When removing the screws ②, be careful not to lose spacer. ③ Remove two stoppers ③ and lift the pole base ass'y upward to remove it. (5) For installing the T.U. loading assy pay careful attention to the item No.2 of "2.4 Assembling of Mechanism". (6) After replacing the TU pole base, check the following items. ① A/C head adjustment (see 2.6.4). ② Tape transport check (see 2.7.1). ③ FM waveform check (see 2.6.2).

SECTION 3
ELECTRICAL ADJUSTMENT

With the change that the FM AUDIO PRE/REC AMP board is incorporated in the AUDIO-3 board, adjustment procedure of the audio circuit is changed to as mentioned below.
Therefore, for adjusting the audio circuit with the new AUDIO-3 board (PRK10115) refer to the procedure mentioned below, while for adjusting the circuit with the old board (PRK10062) refer to the service manual issued previously.

3.1 AUDIO CIRCUIT (BR-S822U/BR-S622U)

***Note** • All adjustment values are balanced values with 600Ω resistance.*
• Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.
• When using an oscilloscope for observing waveforms, etc., use the 10:1 probe.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
1	**AUDIO REC LEVEL VR setting & AUDIO LEVEL METER adjustment**	HiFi AUDIO OUT (600Ω terminator)	R87 : 2E (Lch) R88 : 2E (Rch) (AUDIO-2)	1kHz/ −6dBs ↓ HiFi AUDIO IN	E-E	1) Set the AUDIO MONITOR switch to the "Hi-Fi" position. 2) Adjust output level at the HiFi AUDIO output terminal to be −6.0dBs with the HiFi REC LEVEL VR. ***Note For the following adjustment, leave the Hi-Fi AUDIO REC LEVEL VR as it is set in the step 2).*** 3) Reading the AUDIO LEVEL METER head-on, adjust R87(L-ch) and R88(R-ch) so that the meter reads 0.0dB respectively.
		N. AUDIO OUT (600Ω terminator)	−	1kHz/ −6dBs ↓ N. AUDIO IN	E-E	1) Set the AUDIO MONITOR switch to the "NORM" position. 2) Adjust output level at the N.AUDIO output terminal to be −6.0dBs with the N.AUDIO REC LEVEL VR. ***Note For the following adjustment, leave the N.AUDIO REC LEVEL VR as it is set in the step 2).*** 3) Read the AUDIO LEVEL METER head-on while confirming that the pointer indicates 0.0±0.5dB. ***Note: Confirm that level difference between R and L channels is within 0.5dB.***
2	**Normal Audio playback level**	N. AUDIO OUT (600Ω terminator)	R25 : 7E (Lch) R26 : 5E (Rch) (AUDIO-1)	MBA	PB	1) Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF". 2) Adjust R25(L-ch) and R26(R-ch) so that each output level is −6.0dBs. ***Note: Adjust the TRACKING VR to the best tracking position.*** ***Note Confirm that the meter pointer does not overshake in the Search FWD/ REV mode.***
		Playback level : −6.0dBs				
3	**Normal Audio playback frequency response**	N. AUDIO OUT (600Ω terminator)	R125 : 6B (Lch) R126 : 5C (Rch) (AUDIO-1)	MH-6	PB	1) Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF". 2) With the alignment tape MH-6, confirm that playback level of the 100Hz signal is −0.5dB as against playback level of the 400Hz signal. 3) With the same tape used, adjust R125(L-ch) and R126(R-ch) so that playback level of the 10kHz signal is +1.8dB compared with that of the 400Hz signal. ***Note: Adjust the TRACKING VR to the best tracking position.***

- Rated frequency response -

400Hz	100Hz	10kHz
0dB (Reference)	−0.5±2.0dB	+1.8dB

Note ***• All adjustment values are balanced values with 600Ω resistance.***
• Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
4	**Audio bias frequency & level**	TP5 : 9C (AUDIO-1) ↓ Frequency counter	L405 : 11D (AUDIO-1)	No input signal	REC S-VHS	1) Adjust frequency at TP5 to be 70kHz.
			TP5 : 70±3kHz			
		TP5 : 9C (Lch) TP6 : 4A (Rch) (AUDIO-1) ↓ Oscilloscope	T401 : 10G (Lch) T402 : 11E (Rch) (AUDIO-1)	No input signal	REC S-VHS	2) Turn R425 and R426 on the AUDIO1 board full clockwise. In this condition, adjust T401(L-ch) and T402(R-ch) to maximize bias oscillation respectively. (more than 80Vp-p)
			TP5,TP6 : Maximum			
			R425 : 10G (Lch) R426 : 10E (Rch) (AUDIO-1)	No input signal	REC S-VHS	3) Adjust R425 (L-ch) and R426 (R-ch) to obtain 65Vp-p as respective bias levels. ***Note: The above bias levels may be readjusted later in the Item No.6.***
			TP5,TP6 : 65Vp-p			
			R455 : 11F (Lch) R456 : 12F (Rch) (AUDIO-1)	No input signal	REC VHS	4) Perform recording without signal input in the VHS mode. 5) Adjust R455(L-ch) and R456(R-ch) to obtain 52Vp-p as respective bias levels. ***Note: The above bias levels may be readjusted later in the Item No.6.***
			Bias level : 52Vp-p			
5	**Normal Audio REC/PB**	N. AUDIO OUT (600Ω terminator)	R7 : 8F (Lch) R8 : 6F (Rch) (AUDIO-1)	1kHz/ −6dBs ↓ N. AUDIO IN	REC VHS ↓ PB	1) Record the 1kHz/−6dBs signal and play it back. 2) Confirm that the playback level is −6.0± 0.5dBs on R and L channels respectively (level difference between channels must be within 0.5dB.). 3) When playback level is out of the the specifications, roughly adjust R7(L-ch) orR8(R-ch), and repeat the above steps 1) and 2) until the adjustment brings satisfactory result.
			Playback level : −6.0±0.5dBs			
			−	1kHz/ −6dBs ↓ N. AUDIO IN	REC S-VHS ↓ PB	4) Record the 1kHz/−6dBs signal and play it back. 5) Confirm that the playback level is −5.5±1.0dBs.
			Playback level : −5.5±1.0dBs			

Note ***• All adjustment values are balanced values with 600Ω resistance.***
• Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
6	**Normal audio PB frequency response (REC/PB)**	N. AUDIO OUT (600Ω terminator)	—	1kHz, 10kHz/ −26dBs ↓ N. AUDIO IN	REC S-VHS ↓ PB	1) Make sure of MEMORY switch No.201(DOLBY NR) being set to "OFF". 2) Record the 1kHz and 10kHz signals, and play them back. 3) Confirm that playback level of the 10kHz signal is −0.5±0.5dB as against that of the 1kHz signal. 4) If not, fine adjust the bias levels explained in the previous item, No .4. (a)If the level of the 10kHz signal is higher than the specifications, raise the bias level according to the step 3) of the Item No.4. (b)If the level of the 10kHz signal is lower than the specifications, decline the bias level according to the same step. 5) After the bias adjustment, repeat the steps 2) and 4) to meet the specifications.

- Rated frequency response -
(S-VHS NR: "OFF")

1kHz	10kHz
0dB (Reference)	−0.5±0.5dB

	—	1kHz, 12kHz/ −26dBs ↓ N. AUDIO IN	REC S-VHS ↓ PB	6) Set the NR switch to "ON", and record the 1kHz and 12kHz signals and play them back. 7) Confirm that playback level of the 12kHz signal is 0.0±2.5dB as against that of the 1kHz signal (level difference between R and L channels must be within 3.0dB). 8) Return the NR switch to "OFF" position.

- Rated frequency response -
(S-VHS NR: "ON")

1kHz	12kHz
0dB (Reference)	−0.0±2.5dB

N. AUDIO OUT (600Ω terminator)	—	1kHz, 10kHz/ −26dBs ↓ N. AUDIO IN	REC VHS ↓ PB	9) Record the 1kHz and 10kHz signals, and play them back. 10)Confirm that playback level of the 10kHz signal is −0.5±0.5dB as against that of the 1kHz signal. 11)If not, fine adjust the bias levels explained in the previous item, No.4. (a)If the level of the 10kHz signal is higher than the specifications, raise the bias level according to the step 5) of the Item No.4. (b)If the level of the 10kHz signal is lower than the specifications, decline the bias level according to the same step. 12)After the bias adjustment, repeat the steps 9) and 10) to meet the specifications.

- Rated frequency response -
(VHS NR: "OFF")

1kHz	10kHz
0dB (Reference)	−0.5±0.5dB

	—	1kHz, 12kHz/ −26dBs ↓ N. AUDIO IN	REC VHS ↓ PB	13)Set the NR switch to "ON", and record the 1kHz and 12kHz signals and play them back. 14)Confirm that playback level of the 12kHz signal is 0.0±2.5dB as against that of the 1kHz signal (level difference between R and L channels must be within 3.0dB). 15)Return the NR switch to "OFF" position.

- Rated frequency response -
(VHS NR: "ON")

1kHz	12kHz
0dB (Reference)	0.0±2.5dB

***Note** • All adjustment values are balanced values with 600Ω resistance.*
• Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
7	**Full erase frequency**	TP403 : 9A (AUDIO-1) ↓ Frequency counter	T405 : 9A (AUDIO-1)	No input signal	REC VHS	1) Adjust T405 so that frequency at TP403 becomes 70kHz.
			TP403 : 70±6kHz			
8	**BR-S822U Audio insert erase voltage**	TP401 : 9B (AUDIO-1) ↓ Oscilloscope	T403 : 11C (AUDIO-1)	No input signal	AUD-1 INSERT VHS	1) Perform the AUD-1 insert editing. 2) Adjust T403 to maximize erase level at TP401 (more than 200mVp-p). ***Note: After this adjustment, repeat the AUD-1 insert editing while confirming the erase level being the same as adjusted in the step 2).***
			Lch erase level : Maximum			
		TP402 : 9B (AUDIO-1) ↓ Oscilloscope	T404 : 11B (AUDIO-1)	No input signal	AUD-2 INSERT VHS	3) Perform the AUD-2 insert editing. 4) Adjust T404 to maximize erase level at TP402 (more than 200mVp-p.) ***Note: After this adjustment, repeat the AUD-2 insert editing while confirming the erase level being the same as adjusted in the step 4).***
			Rch erase level : Maximum			
	BR-S622U Audio post-recording erase voltage	TP402 : 9B (AUDIO-1) ↓ Oscilloscope	T404 :11B (AUDIO-1)	No input signal	AUDIO DUB VHS	1) Perform audio dubbing (postrecording). 2) Adjust T404 to maximize erase level at TP402 (more than 200mVp-p). ***Note: After this adjustment, repeat the audio dubbing operation while confirming the erase level being the same as adjusted in the step 2).***
			Rch erase level : Maximum			
		TP401 : 9B (AUDIO-1) ↓ Oscilloscope	T403 : 11C (AUDIO-1)	No input signal	REC VHS	3) Adjust T403 to maximize erase level at TP401. ***Note: After this adjustment, set the deck to the REC mode again while confirming the erase level being the same as adjusted in the step 3).***

Note • All adjustment values are balanced values with 600Ω resistance.
• Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
9	**BR-S822U Normal audio insert crosstalk cancel**	N. AUDIO OUT (600Ω terminator)	R302 : 4D (AUDIO-1)	1kHz/ −6dBs ↓ N. AUDIO	AUD-1 INSERT VHS	1) Perform AUD-1 insert editing with a tape on which no audio signal is recorded. 2) Adjust R302 to minimize output level on R-ch. ***Note: For this adjustment, use a tape on which normal audio signal is not recorded.***
		Rch output level : Minimum				
			R301 : 5D (AUDIO-1)	1kHz/ −6dBs ↓ N. AUDIO	AUD-2 INSERT VHS	3) Perform AUD-2 insert editing with a tape on which no audio signal is recorded. 4) Adjust R301 to minimize output level on L-ch. ***Note: For this adjustment, use a blank tape on which any signal is not recorded.***
			Lch output level : Minimum			
			R320 : 5D L302 : 5C (AUDIO-1)	10kHz/ −6dBs ↓ N. AUDIO IN	AUD-1 INSERT VHS	5) Perform AUD-1 insert editing with a tape on which no audio signal is recorded. 6) Adjust R320 and L302 to minimize output level on R-ch. ***Note: Repeat the above steps 5), 6) and 7), 8) until respective output levels are minimized.***
			Rch output level : Minimum			
			R319 : 6D L301 : 6C (AUDIO-1)	10kHz/ −6dBs ↓ N. AUDIO IN	AUD-2 INSERT VHS	7) Perform AUD-2 insert editing with a tape on which no audio signal is recorded. 8) Adjust R319 and L301 to minimize output level on L-ch. ***Note: Repeat the above steps 5), 6) and 7), 8) until respective output levels are minimized.***
			Lch output level : Minimum			
	BR-S622U Normal audio post-recording crosstalk cancel	N. AUDIO OUT (600Ω terminator)	R301 : 5D (AUDIO-1)	1kHz/ −6dBs ↓ N. AUDIO	AUDIO DUB VHS	1) Perform audio dubbing (postrecording) with a tape on which no audio signal is recorded. 2) Adjust R301 to minimize output level on L-ch.
		Lch output level : Minimum				
			R319 : 6D L301 : 6C (AUDIO-1)	10kHz/ −6dBs ↓ N. AUDIO IN	AUDIO DUB VHS	3) With the 10kHz/−6dBs signal input, perform audio dubbing (postrecording). 4) Adjust R319 and L301 to minimize output level on L-ch.
			Lch output level : Minimum			
10	**BR-S822U Normal audio insert bias trap**	TP7 : 8E (AUDIO-1) ↓ Oscilloscope	L9 : 7F (AUDIO-1)	No input signal	AUD-2 INSERT VHS	1) Perform AUD-2 (R-ch) insert editing. 2) Adjust L9 to minimize bias level (70kHz) at TP7.
			TP7 : Minimum			
		TP8 : 6E (AUDIO-1) ↓ Oscilloscope	L10 : 4F (AUDIO-1)	No input signal	AUD-1 INSERT VHS	3) Perform AUD-1 (L-ch) insert editing. 4) Adjust L10 to minimize bias level (70kHz) at TP8.
			TP8 : Minimum			
	BR-S622U Normal audio post-recording bias trap	TP7 : 8E (AUDIO-1) ↓ Oscilloscope	L9 : 7F (AUDIO-1)	No input signal	AUDIO DUB VHS	1) Perform audio dubbing. 2) Adjust L9 to minimize bias (70kHz) at TP7.
			TP7 : Minimum			

Note ***• All adjustment values are balanced values with 600Ω resistance.***
• Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
11	**BR-S822U Time code bias trap**	TP601 : 2B (AUDIO-1) ↓ Oscilloscope	L601 : 3A (AUDIO-1)	No input signal	AUD-1 INSERT VHS	1) Make sure of MEMORY switch No.206(AUD-2/LTC) being set to "LTC". 2) Perform AUD-1 insert editing. 3) Adjust L601 to minimize level at TP601. 4) After the adjustment, return the MEMORY switch to "AUD-2" position.
			TP601 : Minimum			
12	**Hi-Fi audio carrier frequency**	TP7 (AUDIO-3) ↓ Frequency counter	R29 (AUDIO-3)	No input signal	REC VHS	1) Set the MEMORY switch No.200(HiFi REC) to "ON" position. 2) Adjust R29 so that frequency at TP7 becomes 1.300±0.002MHz.
			Lch carrier frequency : 1.300±0.002MHz			
		TP8 (AUDIO-3) ↓ Frequency counter	R30 (AUDIO-3)	No input signal	REC VHS	3) Adjust R30 so that frequency at TP8 becomes 1.700±0.002MHz.
			Rch carrier frequency : 1700±0.002MHz			
13	**Hi-Fi audio FM output level**	A-RF terminal (Front panel) ↓ Oscilloscope	R55 (AUDIO-3)	MHAF-3	PB	1) Adjust R55 so that FM output level at the A-RF terminal inside the front panel becomes 100mVp-p. ***Note: If there is level difference in two channels, adjust the level by the channel having the lower level.*** ***Adjust the TRACKING VR to the best tracking position.***
			A-RF terminal : 100mVp-p			
14	**Hi-Fi audio PB level**	HiFi AUDIO OUT (600Ω terminator)	R15 (Lch) R16 (Rch) (AUDIO-3)	MHAF-3 (1kHz)	PB	1) With the alignment tape MHAF-3 being played back, adjust R15(L-ch) and R16(R-ch) so that playback level of the 1kHz signal is −6.0dBs. ***Note: Adjust the TRACKING VR to the best tracking position.***
			Hi-Fi audio PB level : −6.0dBs			

3.2 AUDIO CIRCUIT (BR-S522U/BR-S525U)

***Note** • All adjustment values are balanced values with 600Ω resistance.*
• Turn off the memory switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
1	**Hi-Fi audio carrier frequency**	TP7 (AUDIO-3) ↓ Frequency counter	R29 (AUDIO-3)	—	No cassette	1) Adjust R29 so that frequency at TP 7 becomes 1.300±0.002MHz.
		Lch carrier frequency : 1.300±0.002MHz				
		TP8 (AUDIO-3) ↓ Frequency counter	R30 (AUDIO-3)	—	No cassette	1) Adjust R30 so that frequency at TP 8 becomes 1.700±0.002MHz.
		Rch carrier frequency : 1.700±0.002MHz				
2	**Hi-Fi audio PB level**	HiFi AUDIO OUT (600Ω terminator)	R15 (Lch) R16 (Rch) (AUDIO-3)	MBAF-3 or MH-F6	PB	1) Set the AUDIO PB LEVEL VR to the preset mode (knob is depressed). 2) Play back the 1kHz segment of the alignment tape MBAF-3 or MH-F6 while adjusting R15(L-ch) and R16(R-ch) to obtain −6.0 dBs as the playback level of the 1kHz signal respectively.
		Hi-Fi audio PB level : −6.0dBs				
3	**HiFi AUDIO LEVEL METER**	HiFi AUDIO OUT (600Ω terminator)	R87 : 2E (Lch) R88 : 2E (Rch) (AUDIO-2)	MBAF-3 or MH-F6	PB	1) Set the AUDIO MONITOR switch to the "Hi-Fi" position. 2) Adjust output level at the HiFi AUDIO output terminal to be −6.0dBs with the HiFi PB LEVEL VR. 3) Reading the AUDIO LEVEL METER head-on, adjust R87(L-ch) and R88(R-ch) so that the meter reads 0.0dB respectively.
		AUDIO LEVEL METER : 0.0dBs				
4	**Hi-Fi audio FM output level**	A-RF terminal (Front panel) ↓ Oscilloscope	R55 (AUDIO-3)	MBAF-3	PB	1) Adjust R55 so that FM output level at the A-RF terminal inside the front panel becomes 100mVp-p. ***Note: If there is channel difference, adjust at the smaller level.***
		A-RF terminal : 100mVp-p				
5	**Normal Audio playback level**	N. AUDIO OUT (600Ω terminator)	R25 : 7E (Lch) R26 : 5E (Rch) (AUDIO-1)	MBA	PB	1) Confirm that the MEMORY switch No. 201 (DOLBY NR) is set to "OFF". 2) Set the AUDIO PB LEVEL VR to the preset mode (knob is depressed). 3) Play back the alignment tape MBA. 4) Adjust R25 (L-ch) and R26 (R-ch) to obtain −6.0 dBs as the output level.
		Playback level : −6.0dBs				
		Note Confirm that the meter pointer does not overshake in the Search FWD/ REV mode.				
6	**Normal Audio playback frequency response**	N. AUDIO OUT (600Ω terminator)	R125 : 6B (Lch) R126 : 5C (Rch) (AUDIO-1)	MH-6	PB	1) Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF". 2) With the alignment tape MH-6, confirm that playback level of the 100Hz signal is −0.5dB as against playback level of the 400Hz signal. 3) With the same tape used, adjust R125(L-ch) and R126(R-ch) so that playback level of the 10kHz signal is +1.8dB compared with that of the 400Hz signal.

- Rated frequency response -

400Hz	100Hz	10kHz
0dB (Reference)	−0.5±2.0dB	+1.8dB

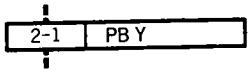
SECTION 4
DIAGRAMS AND CIRCUIT BOARDS

■ FOREWORD

1. Expression of connector

Connector is expressed in two ways.

1) The following illustrates 'CN2 pin 1' for example.



2) The following illustrates 'CN1 pins 1 and 2'.

2. Expression of wiring

As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

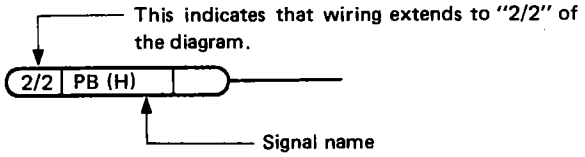
1) Circuit diagram divided into two or more sections:

Board No.	Board Name	Number of divided sections
02	MOTER-2	2 (1/2~2/2)
10	REC/PB Y	2 (1/2~2/2)
12	REC/PB COLOR	2 (1/2~2/2)
19	OUTPUT	2 (1/2~2/2)
21	AUDIO-1	3 (1/3~3/3)
23	AUDIO-3	2 (1/2~2/2)
31	M CTL/REEL SERVO	2 (1/2~2/2)
—	OVERALL	2 (1/2~2/2)

2) Indication of wiring which extends to another section:

(Example)

On the "1/2" diagram of REC/PB Y board, such an indication as the following is found on the "PB (H)" signal line.



In the above case, the end of the wiring is connected to the "2/2-PB (H)" on the 2nd section of the diagram.

3. Wiring of connector

(Example)

In the above example, CN1 is connected with CN2 on 1 2 SYSCON board.

Note: When one end of the connector's wiring is the MOTHER board, further destination of the wiring after the MOTHER board is shown in ( ) nearby the connector.

4. Signal flow on the diagram

The following arrow marks indicate the specified signal paths respectively.

- ➡ : RECORDING or EE signal path
- ⇨ : PLAYBACK signal path
- ➡ : REC/PLAY signal path

5. Measurement of voltage and waveform

1) Voltage

Measured by digital voltmeter in REC mode.

Value in ( ) shows voltage in S-VHS PB mode, and it is indicated only in the case PB voltage is different from that in REC.

2) Waveform

Video: Unless otherwise indicated, (a) color bars signal input through LINE IN terminal in REC in S-VHS mode, (b) color bars signal of MHV-2H alignment tape in PB.

6. Unit of value

Unless otherwise specified:

1) Resistance is in Ω (1/6 W)
2) Capacitance in μF
3) Inductance in μH
4) Screened parts (in ▒▒) are important for safety assurance. When replacing them, use specified parts.
5) Values without any indication in ( ) are common to the BR-S822, BR-S622, BR-S522 and BR-S525.

4.1 CIRCUIT BOARD LOCATIONS

• Index to board by kind of diagram

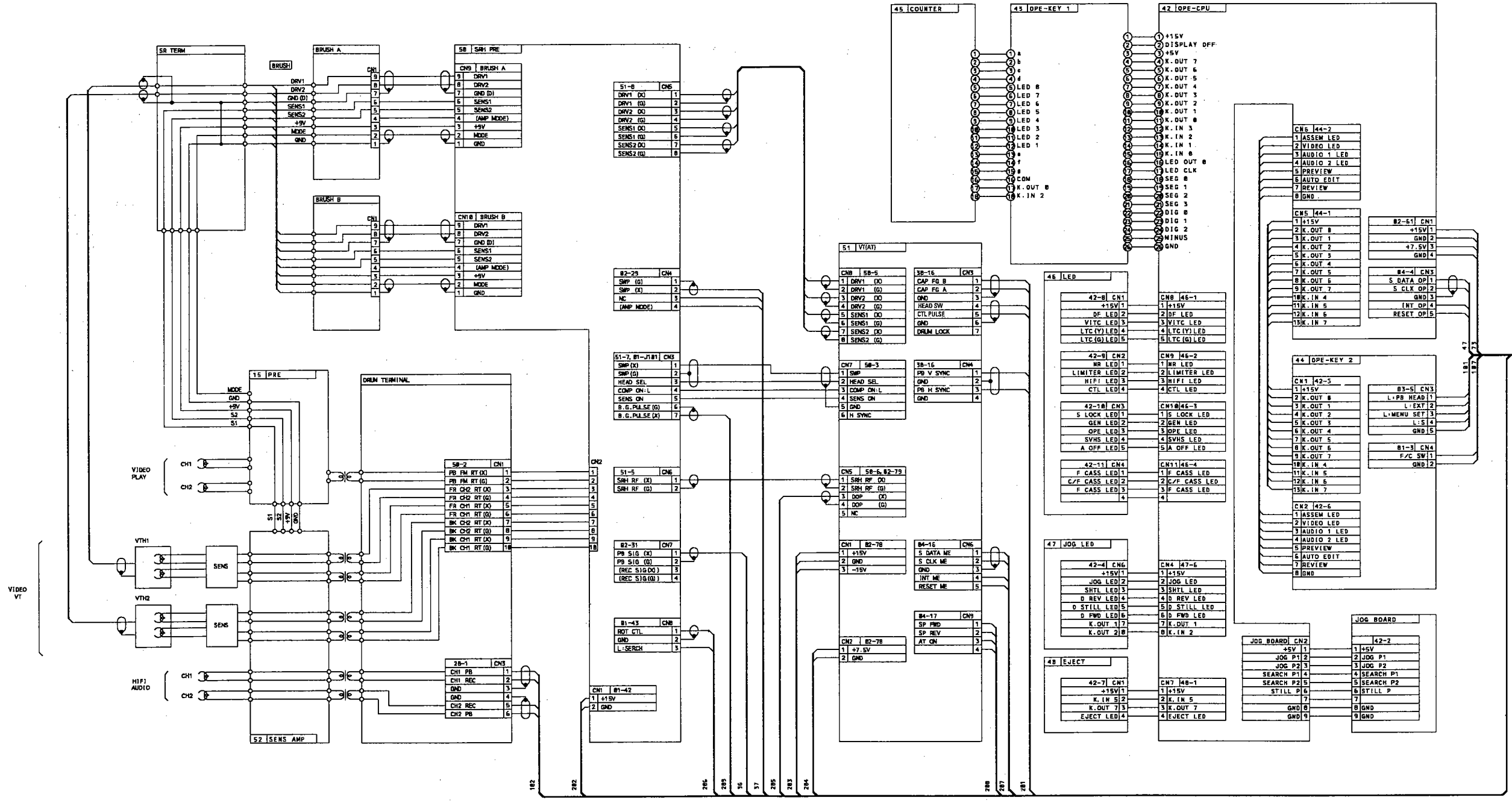
This section contains merely the diagrams of the circuit boards that have been changed. For other circuit boards, refer to the service manual for BR-S822U/BR-S622U/BR-S522U/BR-S525U.
The Board Numbers (□□) appearing in this section are the same as those in the service manual.

Board No.	Board Name	Page of diagram			
		Block diagram	Schematic diagram	Circuit board	Parts list
01	MOTHER-1	—	4-8	4-9,4-18	6-2
02	MOTHER-2	—	4-10,11	4-12	6-3
03	SLOT MOTHER	—	*1	*1	*1
04	SYSCON MOTHER	—	*1	*1	*1
05	FUSE	—	*1	*1	*1
10	REC/PB Y (NC LIM INC.)	*1	*1	*1	*1
12	REC/PB C (CTC DL, CNR DL, DELAY TP INC.)	*1	*1	*1	*1
15	PRE/REC	—	*1	*1	*1
16	R/P ADJUST	*1	*1	*1	*1
17	Y COMB (1H DELAY 4FSC INC.)	*1	*1	*1	*1
19	OUTPUT	*1	*1	*1	*1
20	FMA PRE/REC	*1	*1	*1	*1
21	AUDIO-1	*1	*1	*1	*1
22	AUDIO-2	*1	*1	*1	*1
23	AUDIO-3	*1	4-14,15	4-13	6-3 ~ 5
24	AUDIO-4 (XLR)	*1	*1	*1	*1
25	AUDIO-5 (XLR)	*1	*1	*1	*1
26	AUDIO-6 (FRONT (BR-S822/BR-S622))	*1	*1	*1	*1
27	JACK (FRONT (BR-S822/BR-S622))	*1	*1	*1	*1
28	VR (FRONT (BR-S822/BR-S622))	*1	*1	*1	*1
26	AUDIO-6 (FRONT (BR-S522))	—	*1	*1	*1
27	JACK (FRONT (BR-S522))	—	*1	*1	*1
28	VR (FRONT (BR-S522))	—	*1	*1	*1
29	A/C HEAD	—	—	*1	*1
30	D/C SERVO	*1	*1	*1	*1
31	M-CTL/REEL SERVO	*1	*1	*1	*1
40	SYSCON	*1	*1	*1	*1
41	AV MICOM/ON SCREEN	*1	4-16	4-17	6-6 ~ 8
42	OPERATION (43, 44, 46, 47, 48 INC.)	—	*1	*1	*1
45	COUNTER DISPLAY	—	*1	*1	*1
71	REAR-1 (72 -2, 73 -3 INC.)	*1	*1	*1	*1
80	METER (81 SWITCH, 82 TRACKING VR INC.)	*1	*1	*1	*1
83	SUB PANEL (84 TP TERMINAL INC.)	—	*1	*1	*1
91	DECK TERMINAL (92 -2 INC.)	—	*1	*1	*1
93	CASSETTE HOUSING	—	—	*1	*1

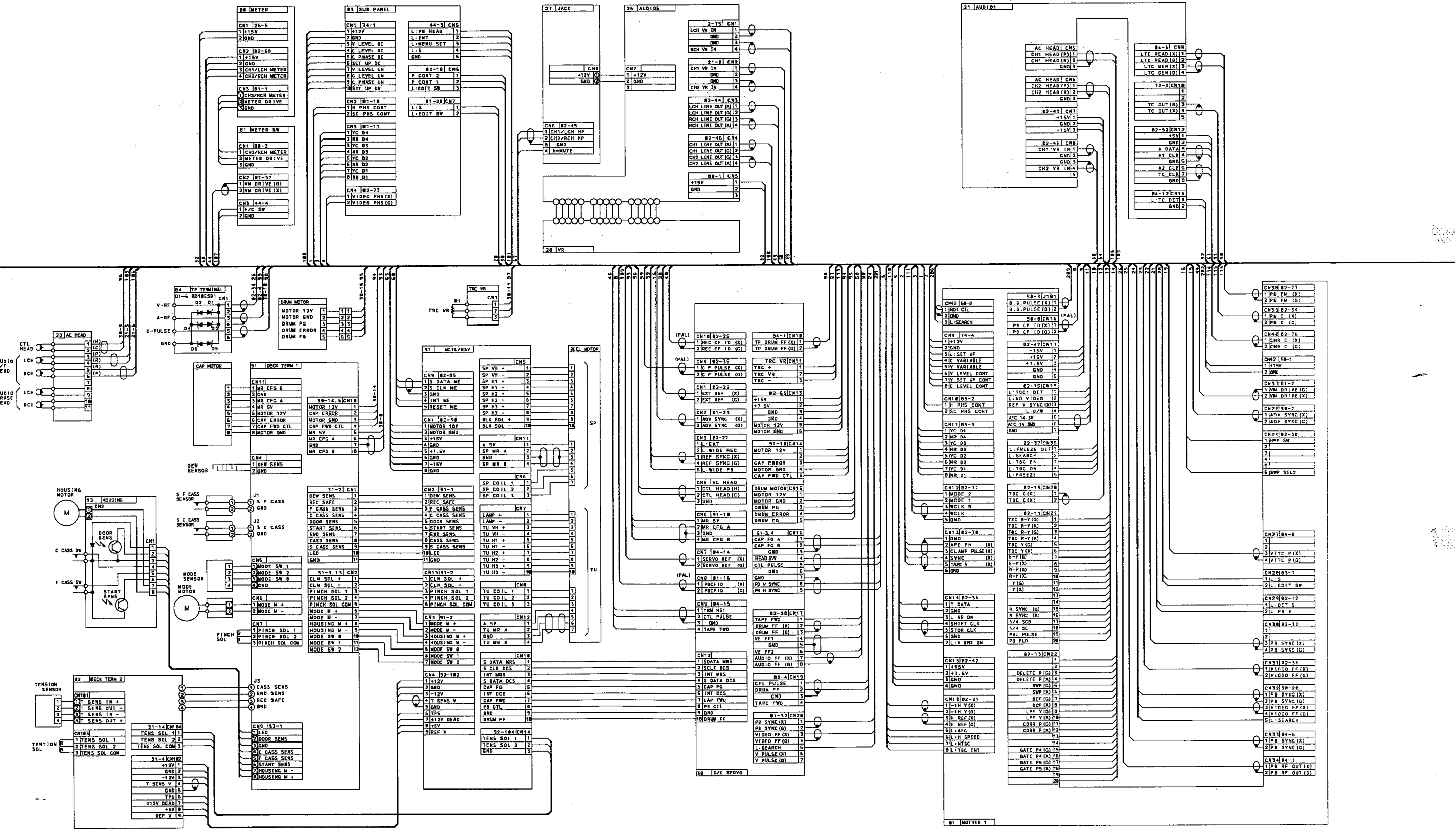
*1: Refer to the BR-S822U/BR-S622U/BR-S522U/BR-S525U.

4.2 OVERALL WIRING DIAGRAM (BR-S525)

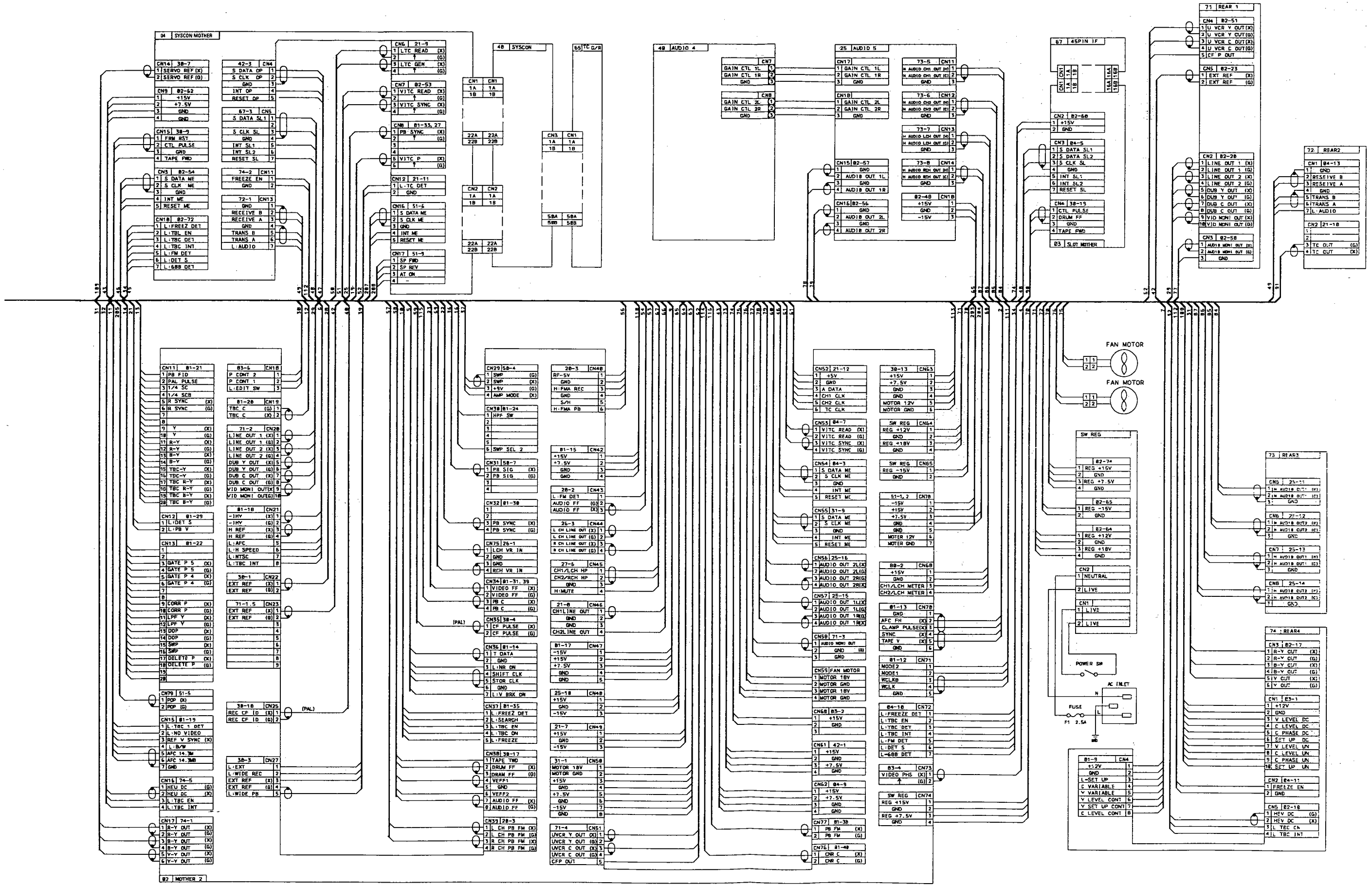
— DIAGRAM (1/3) —



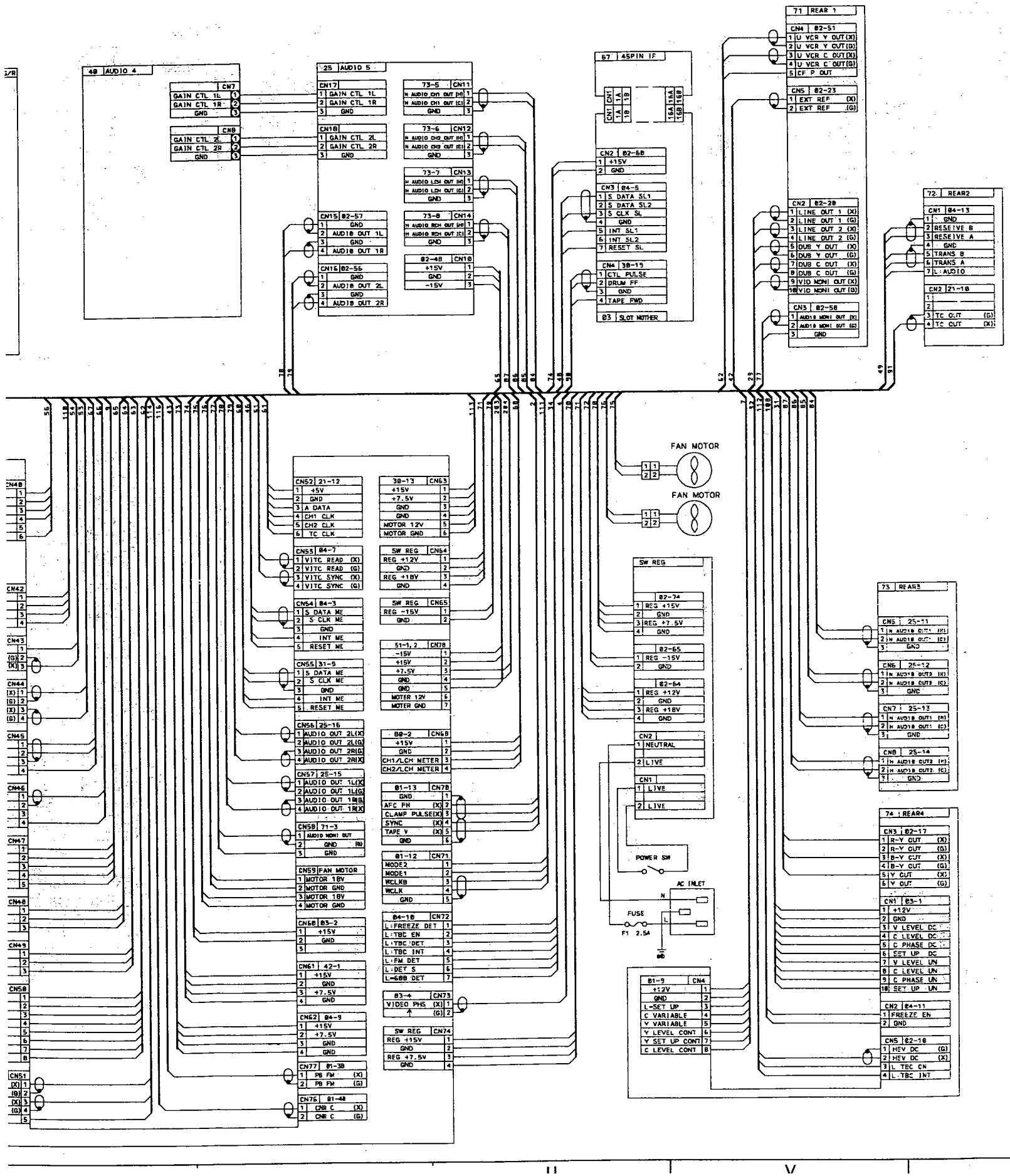
— DIAGRAM (2/3) —


88 METER
CN1 26-5
1 +15V
2 GND
CN2 82-68
1 +15V
2 GND
3 CH1/LCH METER
4 CH2/RCH METER
CN3 81-1
1 CH2/RCH METER
2 METER DRIVE
3 GND
81 METER SW
CN1 88-3
1 CH2/RCH METER
2 METER DRIVE
3 GND
CN2 81-37
1 VM DRIVE (G)
2 VM DRIVE (X)
CN3 44-4
1 F/C SW
2 GND
83 SUB PANEL
CN1 74-1
1 +12V
2 GND
3 V LEVEL DC
4 C LEVEL DC
5 C PHASE DC
6 SET UP DC
7 V LEVEL UN
8 C LEVEL UN
9 C PHASE UN
10 SET UP UN
CN2 81-18
1 N PHS CONT
2 SC PHS CONT
CN5 81-11
1 YC D4
2 NR D4
3 YC D3
4 NR D3
5 YC D2
6 NR D2
7 YC D1
8 NR D1
CN4 82-73
1 VIDEO PHS (X)
2 VIDEO PHS (G)
44-3 CN5
L: PB HEAD
L: ENT
L: MENU SET
L: S
GND
82-18 CN6
P CONT 2
P CONT 1
L: EDIT SW
81-28 CN7
L: S
L: EDIT SW
27 JACK
CN8
+12V
GND
CN6 82-45
1 CH1/LCH HP
2 CH2/RCH HP
3 GND
4 H=MUTE
26 AUDIO6
CN7
1 +12V
2 GND
3
2-75 CN1
LCH VR IN
GND
GND
RCH VR IN
21-8 CN3
CH1 VR IN
GND
GND
CH2 VR IN
82-44 CN5
LCH LINE OUT (X)
LCH LINE OUT (G)
RCH LINE OUT (G)
RCH LINE OUT (X)
82-46 CN4
CH1 LINE OUT (X)
CH1 LINE OUT (G)
CH2 LINE OUT (G)
CH2 LINE OUT (X)
88-1 CN5
+15V
GND
28 VR
21 AUDIO1
AC HEAD CN5
CH1 HEAD (P)
CH1 HEAD (X)
GND
AC HEAD CN6
CH2 HEAD (P)
CH2 HEAD (X)
GND
82-49 CN7
+15V
GND
-15V
82-48 CN8
CH1 VR IN
GND
GND
CH2 VR IN
84-6 CN9
LTC READ (X)
LTC READ (G)
LTC GEN (X)
LTC GEN (G)
72-2 CN10
TC OUT (G)
TC OUT (X)
82-52 CN12
+5V
GND
A DATA
A1 CLK
GND
A2 CLK
TC CLK
GND
84-12 CN11
L: TC DET
GND
29 AC HEAD
CTL HEAD
LCH
RCH
AUDIO ERASE HEAD
LCH
RCH
84 TP TERMINAL
D1-6 RD18ESB1
V-RF
A-RF
D-PULSE
GND
DRUM MOTOR
MOTOR 12V
MOTOR GND
DRUM PG
DRUM ERROR
DRUM FG
CAP MOTOR
91 DECK TERM 1
CN11
MR CFG B
GND
MR CFG A
MR 5V
MOTOR 12V
CAP ERROR
CAP FWD CTL
MOTOR GND
38-14.5 CN10
MOTOR 12V
CAP ERROR
MOTOR GND
CAP FWD CTL
MR 5V
MR CFG A
GND
MR CFG B
DEW SENSOR
CN4
DEW SENS
GND
HOUSING MOTOR
93 HOUSING
CN2
S F CASS SENSOR
J1
S F CASS
GND
S C CASS SENSOR
J2
S C CASS
GND
C CASS SW
F CASS SW
DOOR SENS
START SENS
CN1
MODE SENSOR
MODE MOTOR
CN5
MODE SW 1
MODE SW 2
MODE SW 0
GND
CN6
MODE M +
MODE M -
CN7
PINCH SOL 1
PINCH SOL 2
PINCH SOL COM
PINCH SOL
31-2 CN1
DEW SENS
REC SAFE
F CASS SENS
C CASS SENS
DOOR SENS
START SENS
END SENS
CASS SENS
S CASS SENS
LED
GND
31-3.13 CN2
CLN SOL +
CLN SOL -
PINCH SOL 1
PINCH SOL 2
PINCH SOL COM
MODE M +
MODE M -
HOUSING M +
HOUSING M -
MODE SW 0
MODE SW 1
MODE SW 2
TRC VR
R1
CN1
TRC VR
31 MCTL/RSV
CN9 82-55
S DATA WE
S CLK WE
GND
INT WE
RESET WE
CN1 82-58
MOTOR 18V
MOTOR GND
+15V
GND
+7.5V
GND
-15V
GND
CN2 91-1
DEW SENS
REC SAFE
F CASS SENS
C CASS SENS
DOOR SENS
START SENS
END SENS
CASS SENS
S CASS SENS
LED
GND
CN13 91-2
CLN SOL +
CLN SOL -
PINCH SOL 1
PINCH SOL 2
PINCH SOL COM
CN3 91-2
MODE M +
MODE M -
HOUSING M +
HOUSING M -
MODE SW 0
MODE SW 1
MODE SW 2
CN4 92-102
+12V
GND
-12V
T SENS V
GND
TPS
±12V DEAD
+5V
REF V
CN5
SP VH +
SP VH -
SP M1 +
SP M1 -
SP M2 +
SP M2 -
SP M3 +
SP M3 -
BLK SOL +
BLK SOL -
CN11
A 5V
SP MR A
GND
SP MR B
CN6
SP COIL 1
SP COIL 2
SP COIL 3
CN7
LAMP +
LAMP -
TU VH +
TU VH -
TU M1 +
TU M1 -
TU M2 +
TU M2 -
TU M3 +
TU M3 -
CN8
TU COIL 1
TU COIL 2
TU COIL 3
CN12
A 5V
TU MR A
GND
TU MR B
CN10
S DATA MRS
S CLK DCS
INT MRS
S DATA DCS
CAP FG
INT DCS
CAP FWD
PB CTL
GND
DRUM FF
92-104 CN14
TENS SOL 1
TENS SOL 2
GND
REEL MOTOR
SP
TU
92 DECK TERM 2
CN101
T SENS IN +
T SENS OUT -
T SENS IN -
T SENS OUT +
CN102
TENS SOL 1
TENS SOL 2
TENS SOL COM
TENSION SENSOR
TENSION SOL
31-14 CN104
TENS SOL 1
TENS SOL 2
TENS SOL COM
31-4 CN102
+12V
GND
-12V
T SENS V
GND
TPS
±12V DEAD
+5V
REF V
J3
CASS SENS
END SENS
REC SAFE
GND
CN9 93-1
LED
DOOR SENS
GND
C CASS SENS
F CASS SENS
START SENS
HOUSING M -
HOUSING M +
(PAL)
CN18 82-25
REC CF ID (X)
REC CF ID (G)
CN4 82-35
C F PULSE (X)
C F PULSE (G)
CN1 82-22
EXT REF (X)
EXT REF (G)
CN2 81-23
ADV SYNC (X)
ADV SYNC (G)
CN3 82-27
L: EXT
L: WIDE REC
REF SYNC (X)
REF SYNC (G)
L: WIDE PB
CN6 IAC HEAD
CTL HEAD (H)
CTL HEAD (C)
GND
CN6 91-10
MR 5V
MR CFG A
GND
MR CFG B
CN7 84-14
SERVO REF (X)
SERVO REF (G)
CN8 81-16
PBCFID (X)
PBCFID (G)
CN9 84-15
PRM RST
CTL PULSE
GND
TAPE TWD
CN12
SDATA MRS
SCLK DCS
INT MRS
S DATA DCS
CAP FG
INT DCS
CAP FWD
PB CTL
GND
DRUM FF
30 D/C SERVO
84-1 CN18
TP DRUM FF (X)
TP DRUM FF (G)
TRC VR CN11
TRC +
TRC VR
TRC -
82-63 CN13
+15V
+7.5V
GND
3RD
MOTOR 12V
MOTOR GND
91-18 CN14
MOTOR 12V
GND
CAP ERROR
MOTOR GND
CAP FWD CTL
DRUM MOTOR CN15
MOTOR 12V
MOTOR GND
DRUM PG
DRUM ERROR
DRUM FG
51-3.4 CN16
CAP FG A
CAP FG B
GND
HEAD SW
CTL PULSE
GND
GND
PB V SYNC
PB H SYNC
82-38 CN17
TAPE FWD
DRUM FF (X)
DRUM FF (G)
VE FF1
GND
VE FF2
AUDIO FF (X)
AUDIO FF (G)
83-4 CN19
CFL PULSE
DRUM FF
GND
TAPE FWD
81-32 CN20
PB SYNC (X)
PB SYNC (G)
VIDEO FF (X)
VIDEO FF (G)
L SEARCH
V PULSE (X)
V PULSE (G)
CN43 58-8
ROT CTL
GND
L SEARCH
CN9 74-4
+12V
GND
L: SET UP
C VARIABLE
Y VARIABLE
V LEVEL CONT
V SET UP CONT
C LEVEL CONT
CN10 83-2
H PHS CONT
SC PHS CONT
CN11 83-3
YC D4
NR D4
YC D3
NR D3
YC D2
NR D2
YC D1
NR D1
CN13 82-71
MODE 2
MODE 1
WCLK B
WCLK
GND
CN13 82-78
GND
AFC FH (X)
CLAMP PULSE (X)
SYNC (X)
TAPE V (X)
GND
CN14 82-56
T DATA
GND
L: NR ON
SHIFT CLK
STOR CLK
GND
L: V RRE ON
CN15 82-42
+15V
+7.5V
GND
GND
CN10 82-21
-1H Y (X)
-1H Y (G)
H REF (X)
H REF (G)
L: AFC
L: H SPEED
L: NTSC
L: TBC INT
58-3 J101
B.G.PULSE (X)
B.G.PULSE (G)
58-8 CN16
PB CF ID (X)
PB CF ID (G)
82-47 CN17
-15V
+15V
47.5V
GND
GND
82-15 CN19
L: TBC1 DET
L: NO VIDEO
REF V SYNC (X)
L: B/W
AFC 14.3M
AFC 14.3MB
GND
82-37 CN35
L: FREEZE DET
L: SEARCH
L: TBC EN
L: TBC ON
L: FREEZE
82-15 CN20
TBC C (G)
TBC C (X)
82-11 CN21
TBC R-Y (G)
TBC R-Y (X)
TBC R-Y (G)
TBC R-Y (X)
TBC Y (G)
TBC Y (X)
R-Y (G)
R-Y (X)
B-Y (X)
R-Y (G)
R-Y (X)
Y (G)
Y (X)
R SYNC (G)
R SYNC (X)
1/4 SCB
1/4 SC
PAL PULSE
PB FLG
82-13 CN22
DELETE P (G)
DELETE P (X)
SWP (G)
SWP (X)
DCP (G)
DCP (X)
LPF Y (G)
LPF Y (X)
CORR P (G)
CORR P (X)
GATE P4 (G)
GATE P4 (X)
GATE P5 (G)
GATE P5 (X)
CN38 82-77
PB FM (X)
PB FM (G)
CN39 82-54
PB C (X)
PB C (G)
CN40 82-76
CNR C (X)
CNR C (G)
CN42 58-1
+15V
GND
CN37 81-2
VM DRIVE (G)
VM DRIVE (X)
CN23 58-2
ADV SYNC (X)
ADV SYNC (G)
CN24 82-58
HPF SW
CN27 84-8
VITC P (X)
VITC P (G)
CN28 83-7
L: S
L: EDIT SW
CN29 82-12
L: DET S
L: PB V
CN30 82-32
PB SYNC (X)
PB SYNC (G)
CN31 82-34
VIDEO FF (X)
VIDEO FF (G)
CN32 58-28
PB SYNC (X)
PB SYNC (G)
VIDEO FF (X)
VIDEO FF (G)
L: SEARCH
CN33 84-8
PB SYNC (X)
PB SYNC (G)
CN34 84-1
PB RF OUT (X)
PB RF OUT (G)
81 MOTHER 1

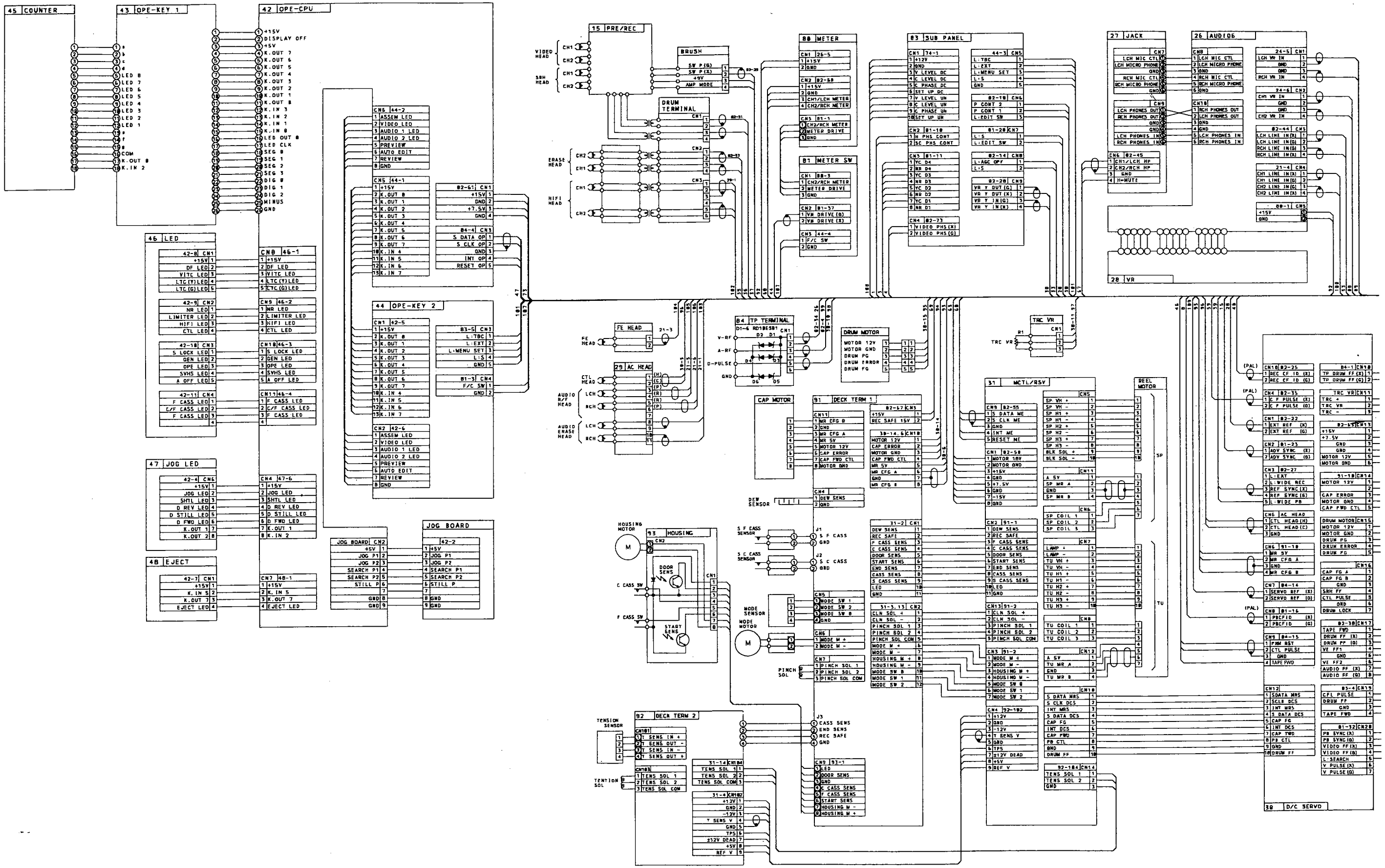
— DIAGRAM (3/3) —

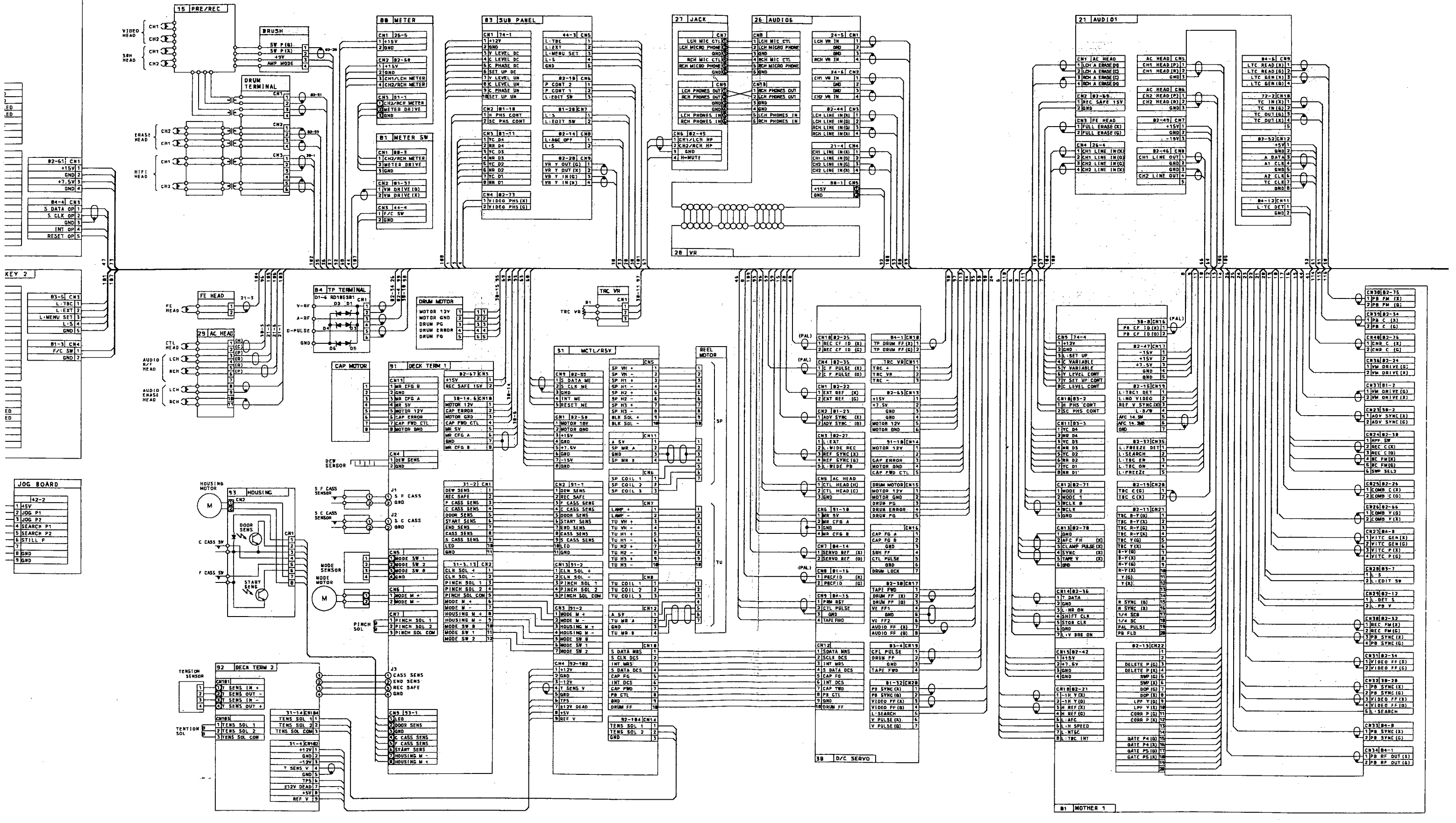


P | Q | R | OVERALL WIRING 45 | 45 OVERALL WIRING | U | V | W

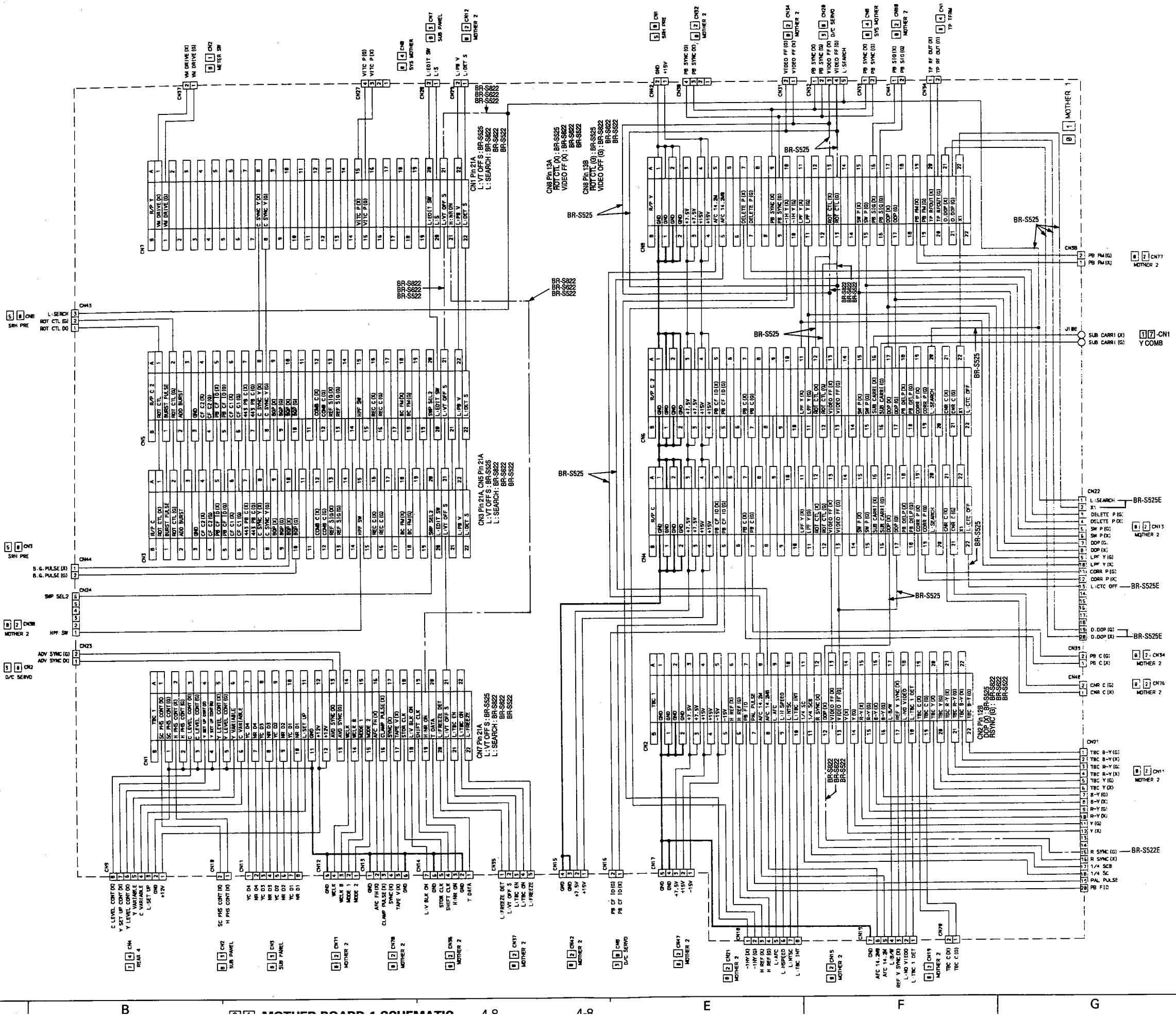

49 AUDIO 4
GAIN CTL 1L
GAIN CTL 1R
GND
GAIN CTL 2L
GAIN CTL 2R
GND
25 AUDIO 5
CN17
1 GAIN CTL 1L
2 GAIN CTL 1R
3 GND
CN18
1 GAIN CTL 2L
2 GAIN CTL 2R
3 GND
CN15 82-57
1 GND
2 AUDIO OUT 1L
3 GND
4 AUDIO OUT 1R
CN16 82-56
1 GND
2 AUDIO OUT 2L
3 GND
4 AUDIO OUT 2R
73-5 CN11
73-6 CN12
73-7 CN13
73-8 CN14
82-48 CN10
+15V
GND
-15V
67 45PIN IF
CN2 82-68
1 +15V
2 GND
CN3 84-5
1 S DATA SL1
2 S DATA SL2
3 S CLK SL
4 GND
5 INT SL1
6 INT SL2
7 RESET SL
CN4 38-13
1 CTL PULSE
2 DRUM FF
3 GND
4 TAPE FWD
03 SLOT MOTHER
71 REAR 1
CN4 82-51
1 U VCR Y OUT(X)
2 U VCR Y OUT(G)
3 U VCR C OUT(X)
4 U VCR C OUT(G)
5 CF P OUT
CN5 82-23
1 EXT REF (X)
2 EXT REF (G)
CN2 82-28
1 LINE OUT 1 (X)
2 LINE OUT 1 (G)
3 LINE OUT 2 (X)
4 LINE OUT 2 (G)
5 DUB Y OUT (X)
6 DUB Y OUT (G)
7 DUB C OUT (X)
8 DUB C OUT (G)
9 VID MONI OUT(X)
10 VID MONI OUT(G)
CN3 82-58
1 AUDIO MONI OUT(X)
2 AUDIO MONI OUT(G)
3 GND
72 REAR2
CN1 84-13
1 GND
2 RESEIVE B
3 RESEIVE A
4 GND
5 TRANS B
6 TRANS A
7 L:AUDIO
CN2 21-18
1
2
3 TC OUT (G)
4 TC OUT (X)
FAN MOTOR
FAN MOTOR
SW REG
82-74
1 REG +15V
2 GND
3 REG +7.5V
4 GND
82-65
1 REG -15V
2 GND
82-64
1 REG +12V
2 GND
3 REG +18V
4 GND
CN2
1 NEUTRAL
2 LIVE
CN1
1 LIVE
2 LIVE
POWER SW
AC INLET
FUSE
F1 2.5A
B1-9 CN4
+12V
GND
L-SET UP
C VARIABLE
Y VARIABLE
Y LEVEL CONT
Y SET UP CONT
C LEVEL CONT
73 REAR3
CN8 25-11
CN6 25-12
CN7 25-13
CN8 25-14
GND
74 :REAR4
CN3 82-17
1 R-Y OUT (X)
2 R-Y OUT (G)
3 B-Y OUT (X)
4 B-Y OUT (G)
5 Y OUT (X)
6 Y OUT (G)
CN1 83-1
1 +12V
2 GND
3 V LEVEL DC
4 C LEVEL DC
5 C PHASE DC
6 SET UP DC
7 V LEVEL UN
8 C LEVEL UN
9 C PHASE UN
10 SET UP UN
CN2 84-11
1 FREEZE EN
2 GND
CN5 82-18
1 HEV DC (G)
2 HEV DC (X)
3 L TBC CN
4 L TBC INT
CN52 21-12
1 +5V
2 GND
3 A DATA
4 CH1 CLK
5 CH2 CLK
6 TC CLK
38-13 CN63
+15V
+7.5V
GND
GND
MOTOR 12V
MOTOR GND
CN53 84-7
1 VITC READ (X)
2 VITC READ (G)
3 VITC SYNC (X)
4 VITC SYNC (G)
SW REG CN64
REG +12V
GND
REG +18V
GND
CN54 84-3
1 S DATA ME
2 S CLK ME
3 GND
4 INT ME
5 RESET ME
SW REG CN65
REG -15V
GND
CN55 31-5
1 S DATA ME
2 S CLK ME
3 GND
4 INT ME
5 RESET ME
51-1,2 CN78
-15V
+15V
+7.5V
GND
GND
MOTER 12V
MOTER GND
CN56 25-16
1 AUDIO OUT 2L(X)
2 AUDIO OUT 2L(G)
3 AUDIO OUT 2R(G)
4 AUDIO OUT 2R(X)
B8-2 CN68
+15V
GND
CH1/LCH METER
CH2/LCH METER
CN57 25-15
1 AUDIO OUT 1L(X)
2 AUDIO OUT 1L(G)
3 AUDIO OUT 1R(G)
4 AUDIO OUT 1R(X)
B1-13 CN78
GND
AFC FH (X)
CLAMP PULSE(X)
SYNC (X)
TAPE V (X)
GND
CN58 71-3
1 AUDIO MONI OUT
2 GND (G)
3 GND
B1-12 CN71
MODE2
MODE1
WCLK8
WCLK
GND
CN59 FAN MOTOR
1 MOTOR 18V
2 MOTOR GND
3 MOTOR 18V
4 MOTOR GND
B4-10 CN72
L:FREEZE DET
L:TBC EN
L:TBC DET
L:TBC INT
L:FM DET
L:DET S
L-68B DET
CN68 83-2
1 +15V
2 GND
3
CN61 42-1
1 +15V
2 GND
3 +7.5V
4 GND
B3-4 CN73
VIDEO PHS (X)
(G)
CN62 84-9
1 +15V
2 +7.5V
3 GND
4 GND
SW REG CN74
REG +15V
GND
REG +7.5V
GND
CN77 81-38
1 PB FM (X)
2 PB FM (G)
CN76 81-48
1 CNR C (X)
2 CNR C (G)
CN42
CN43
CN44
CN45
CN46
CN47
CN48
CN49
CN50
CN51
CN48
U
V
W

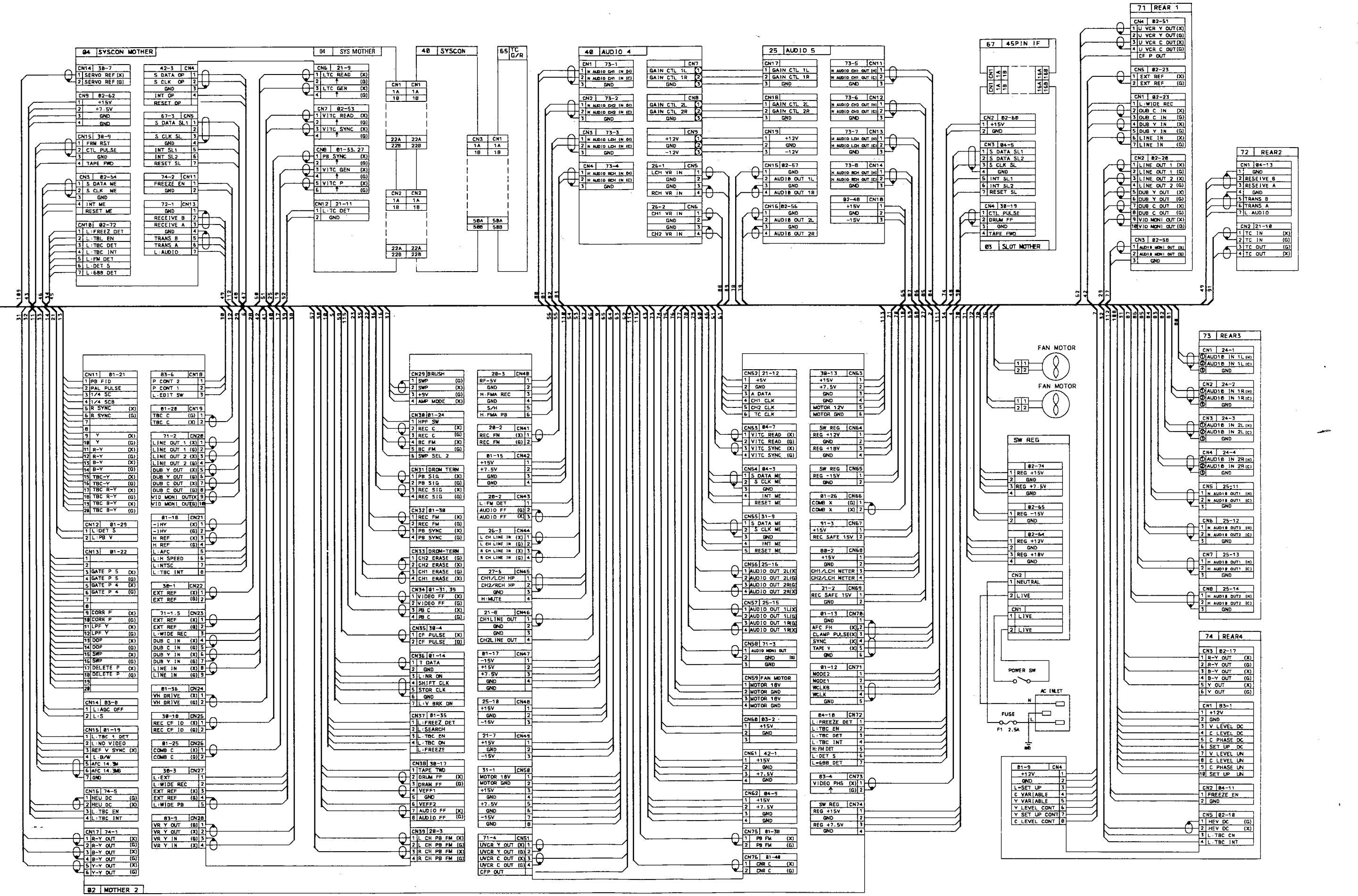
4.3 OVERALL WIRING DIAGRAM (BR-S822/BR-S622/BR-S522)



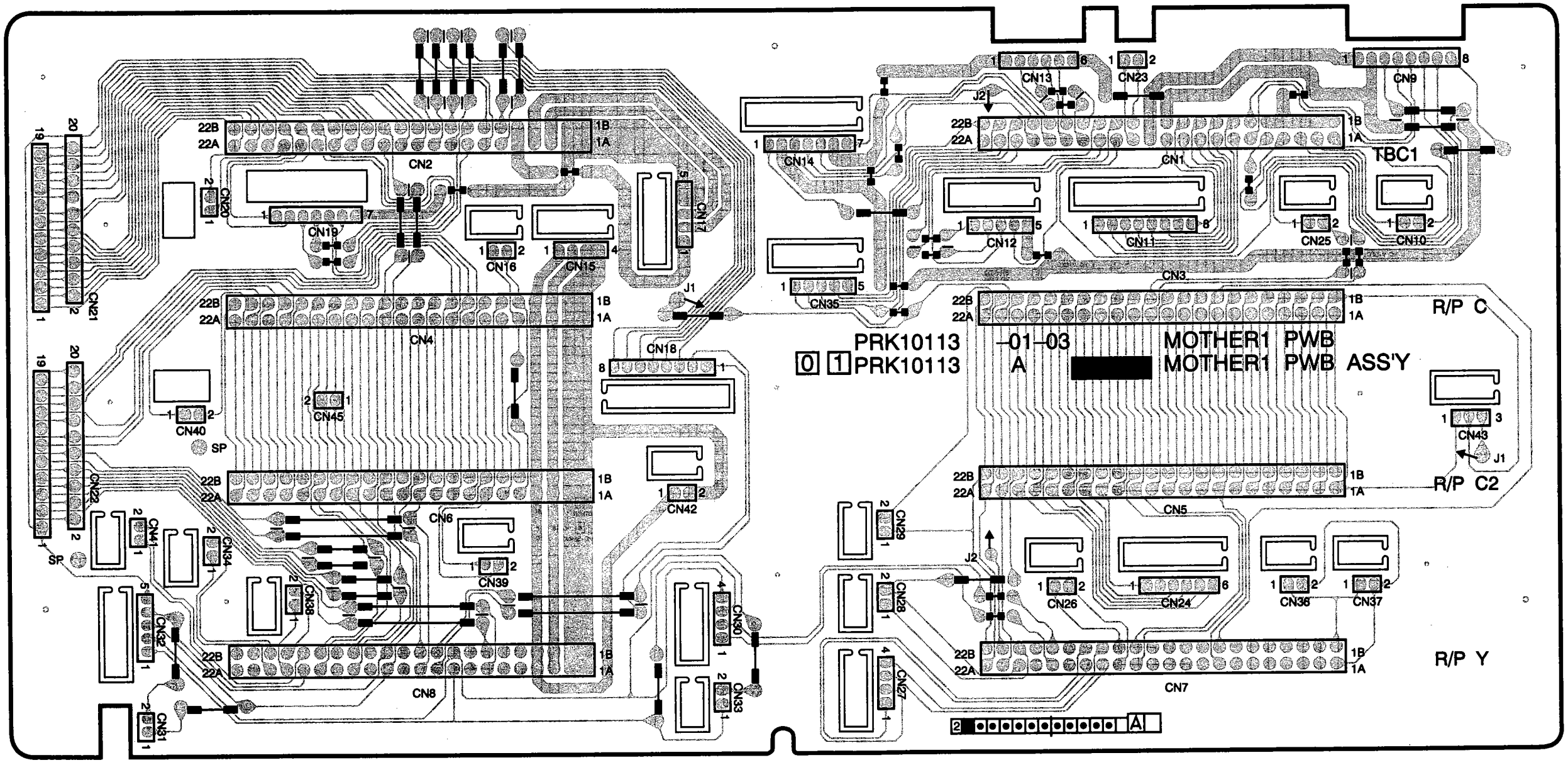

15 PRE/REC
BRUSH
88 METER
83 SUB PANEL
27 JACK
26 AUDIO6
21 AUDIO1
81 METER SW
DRUM TERMINAL
84 TP TERMINAL
29 AC HEAD
FE HEAD
DRUM MOTOR
CAP MOTOR
31 MCTL/RSV
REEL MOTOR
TRC VR
28 VR
JOG BOARD
KEY 2
92 DECK TERM 2
91 DECK TERM 1
93 HOUSING
39 D/C SERVO
B1 MOTHER 1

4.4 MOTHER-1 SCHEMATIC DIAGRAM



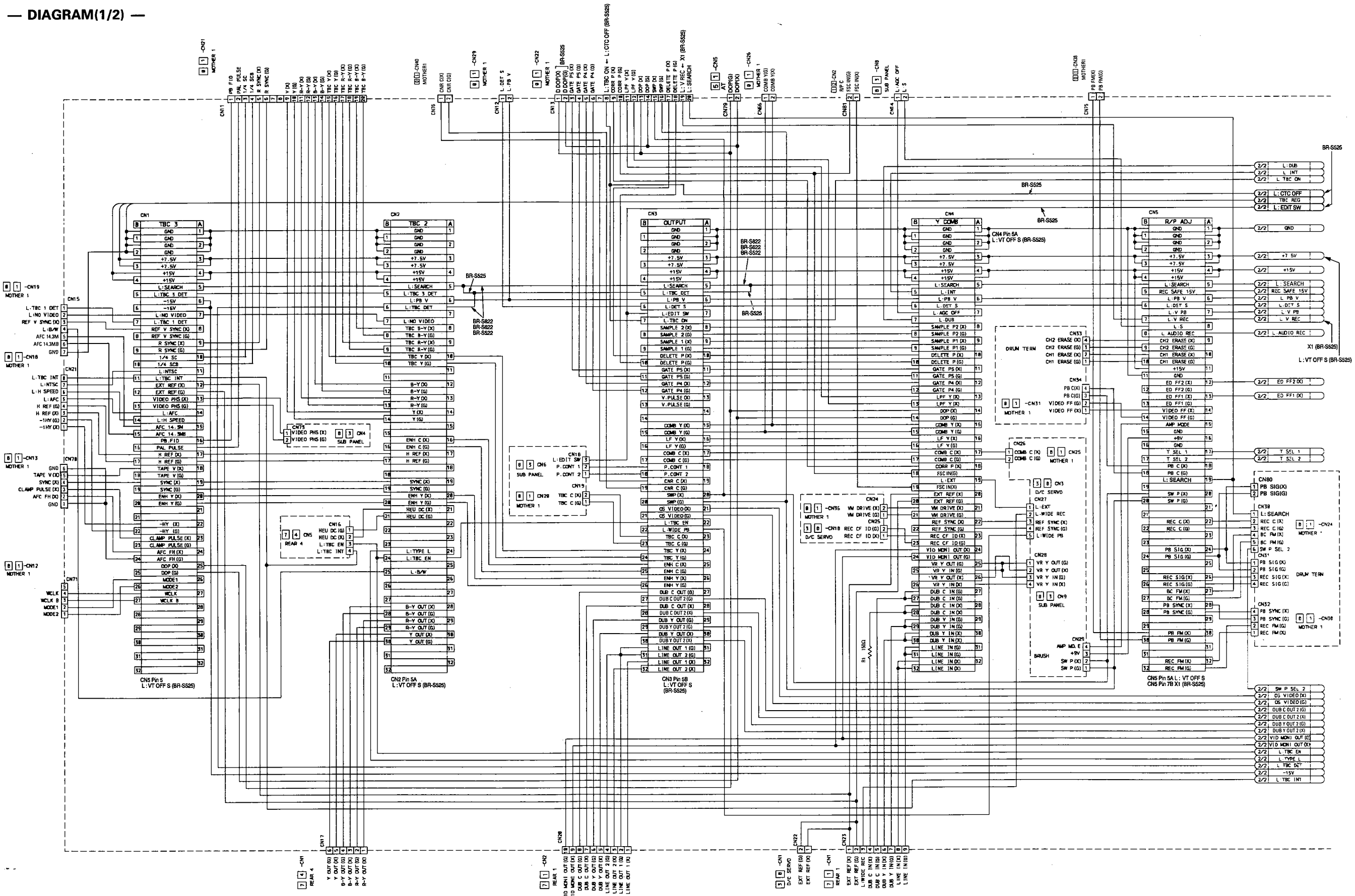

04 SYSCON MOTHER
CN14 38-7
1 SERVO REF (X)
2 SERVO REF (G)
CN9 82-62
1 +15V
2 +7.5V
3 GND
4 GND
CN15 38-9
1 FRM RST
2 CTL PULSE
3 GND
4 TAPE FWD
CN3 82-54
1 S DATA ME
2 S CLK ME
3 GND
4 INT ME
RESET ME
CN10 82-72
1 L:FREEZ DET
2 L:TBL EN
3 L:TBC DET
4 L:TBC INT
5 L:FM DET
6 L:DET S
7 L:688 DET
42-3 CN4
S DATA OP 1
S CLK OP 2
GND 3
INT OP 4
RESET OP
67-3 CN5
S DATA SL1 1
S CLK SL 3
GND 4
INT SL1 5
INT SL2 6
RESET SL 7
74-2 CN11
FREEZE EN 1
GND 2
72-1 CN13
GND 1
RECEIVE B 2
RECEIVE A 3
GND 4
TRANS B 5
TRANS A 6
L:AUDIO 7
04 SYS MOTHER
CN6 21-9
1 LTC READ (X)
2 (G)
3 LTC GEN (X)
4 (G)
CN7 82-53
1 VITC READ (X)
2 (G)
3 VITC SYNC (X)
4 (G)
CN8 81-33, 27
1 PB SYNC (X)
2 (G)
3 VITC GEN (X)
4 (G)
5 VITC P (X)
6 (G)
CN12 21-11
1 L:TC DET
2 GND
40 SYSCON
CN1 CN1
1A 1A
1B 1B
22A 22A
22B 22B
CN2 CN2
1A 1A
1B 1B
22A 22A
22B 22B
CN3 CN1
1A 1A
1B 1B
58A 58A
58B 58B
65 TC G/R
40 AUDIO 4
CN1 73-1
1 N AUDIO CH1 IN (H)
2 N AUDIO CH1 IN (C)
3 GND
CN2 73-2
1 N AUDIO CH2 IN (H)
2 N AUDIO CH2 IN (C)
3 GND
CN3 73-3
1 N AUDIO LCH IN (H)
2 N AUDIO LCH IN (C)
3 GND
CN4 73-4
1 H AUDIO RCH IN (H)
2 H AUDIO RCH IN (C)
3 GND
CN7
GAIN CTL 1L 1
GAIN CTL 1R 2
GND 3
CN8
GAIN CTL 2L 1
GAIN CTL 2R 2
GND 3
CN9
+12V 1
GND 2
-12V 3
26-1 CN5
LCH VR IN 1
GND 2
GND 3
RCH VR IN 4
26-2 CN6
CH1 VR IN 1
GND 2
GND 3
CH2 VR IN 4
25 AUDIO 5
CN17
1 GAIN CTL 1L
2 GAIN CTL 1R
3 GND
CN18
1 GAIN CTL 2L
2 GAIN CTL 2R
3 GND
CN19
1 +12V
2 GND
3 -12V
CN15 82-57
1 GND
2 AUDIB OUT 1L
3 GND
4 AUDIB OUT 1R
CN16 82-56
1 GND
2 AUDIB OUT 2L
3 GND
4 AUDIB OUT 2R
73-5 CN11
N AUDIO CH1 OUT (H) 1
N AUDIO CH1 OUT (C) 2
GND 3
73-6 CN12
N AUDIO CH2 OUT (H) 1
N AUDIO CH2 OUT (C) 2
GND 3
73-7 CN13
H AUDIO LCH OUT (H) 1
H AUDIO LCH OUT (C) 2
GND 3
73-8 CN14
H AUDIO RCH OUT (H) 1
H AUDIO RCH OUT (C) 2
GND 3
82-48 CN18
+15V 1
GND 2
-15V 3
67 4SPIN IF
CN1 CN1
1A 1A
1B 1B
15A 15A
15B 15B
CN2 82-60
1 +15V
2 GND
CN3 84-5
1 S DATA SL1
2 S DATA SL2
3 S CLK SL
4 GND
5 INT SL1
6 INT SL2
7 RESET SL
CN4 38-19
1 CTL PULSE
2 DRUM FF
3 GND
4 TAPE FWD
03 SLOT MOTHER
71 REAR 1
CN4 82-51
1 U VCR Y OUT(X)
2 U VCR Y OUT(G)
3 U VCR C OUT(X)
4 U VCR C OUT(G)
CF P OUT
CN5 82-23
1 EXT REF (X)
2 EXT REF (G)
CN1 82-23
1 L:WIDE REC
2 DUB C IN (X)
3 DUB C IN (G)
4 DUB Y IN (X)
5 DUB Y IN (G)
6 LINE IN (X)
7 LINE IN (G)
CN2 82-28
1 LINE OUT 1 (X)
2 LINE OUT 1 (G)
3 LINE OUT 2 (X)
4 LINE OUT 2 (G)
5 DUB Y OUT (X)
6 DUB Y OUT (G)
7 DUB C OUT (X)
8 DUB C OUT (G)
9 VID MONI OUT(X)
10 VID MONI OUT(G)
CN5 82-58
1 AUDIB MONI OUT (X)
2 AUDIB MONI OUT (G)
3 GND
72 REAR2
CN1 84-13
1 GND
2 RESEIVE B
3 RESEIVE A
4 GND
5 TRANS B
6 TRANS A
7 L AUDIO
CN2 21-18
1 TC IN (X)
2 TC IN (G)
3 TC OUT (G)
4 TC OUT (X)
CN11 81-21
1 PB FID
2 PAL PULSE
3 1/4 SC
4 1/4 SCB
5 R SYNC (X)
6 R SYNC (G)
7
8
9 Y (X)
10 Y (G)
11 R-Y (X)
12 R-Y (G)
13 B-Y (X)
14 B-Y (G)
15 TBC-Y (X)
16 TBC-Y (G)
17 TBC R-Y (X)
18 TBC R-Y (G)
19 TBC B-Y (X)
20 TBC B-Y (G)
CN12 81-29
1 L:DET S
2 L:PB V
CN13 81-22
1
2
3 GATE P 5 (X)
4 GATE P 5 (G)
5 GATE P 4 (X)
6 GATE P 4 (G)
7
8
9 CORR P (X)
10 CORR P (G)
11 LPF Y (X)
12 LPF Y (G)
13 DOP (X)
14 DOP (G)
15 SWP (X)
16 SWP (G)
17 DELETE P (X)
18 DELETE P (G)
19
20
CN14 83-8
1 L:AGC OFF
2 L:S
CN15 81-19
1 L:TBC 1 DET
2 L:NO VIDEO
3 REF V SYNC (X)
4 L:B/W
5 AFC 14.3M
6 AFC 14.3MB
7 GND
CN16 74-5
1 HEV DC (G)
2 HEV DC (X)
3 L:TBC EN
4 L:TBC INT
CN17 74-1
1 R-Y OUT (X)
2 R-Y OUT (G)
3 B-Y OUT (X)
4 B-Y OUT (G)
5 Y-Y OUT (X)
6 Y-Y OUT (G)
83-6 CN18
P CONT 2 1
P CONT 1 2
L:EDIT SW 3
81-28 CN19
TBC C (G) 1
TBC C (X) 2
71-2 CN20
LINE OUT 1 (X) 1
LINE OUT 1 (G) 2
LINE OUT 2 (X) 3
LINE OUT 2 (G) 4
DUB Y OUT (X) 5
DUB Y OUT (G) 6
DUB C OUT (X) 7
DUB C OUT (G) 8
VID MONI OUT(X) 9
VID MONI OUT(G) 10
81-18 CN21
-1HV (X) 1
-1HV (G) 2
H REF (X) 3
H REF (G) 4
L:AFC 5
L:H SPEED 6
L:NTSC 7
L:TBC INT 8
38-1 CN22
EXT REF (X) 1
EXT REF (G) 2
71-1.5 CN23
EXT REF (X) 1
EXT REF (G) 2
L:WIDE REC 3
DUB C IN (X) 4
DUB C IN (G) 5
DUB Y IN (X) 6
DUB Y IN (G) 7
LINE IN (X) 8
LINE IN (G) 9
81-36 CN24
VH DRIVE (X) 1
VH DRIVE (G) 2
38-18 CN25
REC CF ID (X) 1
REC CF ID (G) 2
81-25 CN26
COMB C (X) 1
COMB C (G) 2
38-3 CN27
L:EXT 1
L:WIDE REC 2
EXT REF (X) 3
EXT REF (G) 4
L:WIDE PB 5
83-9 CN28
VR Y OUT (G) 1
VR Y OUT (X) 2
VR Y IN (G) 3
VR Y IN (X) 4
CN29 BRUSH
1 SWP (G)
2 SWP (X)
3 +9V (G)
4 AMP MODE (X)
CN30 81-24
1 HPF SW
2 REC C (X)
3 REC C (G)
4 BC FM (X)
5 BC FM (G)
6 SWP SEL 2
CN31 DROM TERM
1 PB SIG (X)
2 PB SIG (G)
3 REC SIG (X)
4 REC SIG (G)
CN32 81-30
1 REC FM (X)
2 REC FM (G)
3 PB SYNC (X)
4 PB SYNC (G)
CN33 DROM-TERM
1 CH2 ERASE (G)
2 CH2 ERASE (X)
3 CH1 ERASE (G)
4 CH1 ERASE (X)
CN34 81-31, 39
1 VIDEO FF (X)
2 VIDEO FF (G)
3 PB C (X)
4 PB C (G)
CN35 38-4
1 CF PULSE (X)
2 CF PULSE (G)
CN36 81-14
1 T DATA
2 GND
3 L:NR ON
4 SHIFT CLK
5 STOR CLK
6 GND
7 L:V BRK DN
CN37 81-35
1 L:FREEZ DET
2 L:SEARCH
3 L:TBC EN
4 L:TBC ON
L:FREEZE
CN38 38-17
1 TAPE TWD
2 DRUM FF (X)
3 DRAM FF (G)
4 VEFF1
5 GND
6 VEFF2
7 AUDIO FF (X)
8 AUDIO FF (G)
CN39 28-3
1 L CH PB FM (X)
2 L CH PB FM (G)
3 R CH PB FM (X)
4 R CH PB FM (G)
28-3 CN40
RF-5V 1
GND 2
H.FMA REC 3
GND 4
S/H 5
H.FMA PB 6
28-2 CN41
REC FM (X) 1
REC FM (G) 2
81-15 CN42
+15V 1
+7.5V 2
GND 3
GND 4
28-2 CN43
L:FM DET 1
AUDIO FF (G) 2
AUDIO FF (X) 3
26-3 CN44
L CH LINE IN (X) 1
L CH LINE IN (G) 2
R CH LINE IN (X) 3
R CH LINE IN (G) 4
27-6 CN45
CH1/LCH HP 1
CH2/RCH HP 2
GND 3
H:MUTE 4
21-8 CN46
CH1LINE OUT 1
GND 2
GND 3
CH2LINE OUT 4
81-17 CN47
-15V 1
+15V 2
+7.5V 3
GND 4
GND
25-18 CN48
+15V 1
GND 2
-15V 3
21-7 CN49
+15V 1
GND 2
-15V 3
31-1 CN50
MOTOR 18V 1
MOTOR GND 2
+15V 3
GND 4
+7.5V 5
GND 6
-15V 7
GND 8
71-4 CN51
UVCR Y OUT (X) 1
UVCR Y OUT (G) 2
UVCR C OUT (X) 3
UVCR C OUT (G) 4
CFP OUT
CN52 21-12
1 +5V
2 GND
3 A DATA
4 CH1 CLK
5 CH2 CLK
6 TC CLK
CN53 84-7
1 VITC READ (X)
2 VITC READ (G)
3 VITC SYNC (X)
4 VITC SYNC (G)
CN54 84-3
1 S DATA ME
2 S CLK ME
3 GND
4 INT ME
RESET ME
CN55 31-9
1 S DATA ME
2 S CLK ME
3 GND
4 INT ME
5 RESET ME
CN56 25-16
1 AUDIO OUT 2L(X)
2 AUDIO OUT 2L(G)
3 AUDIO OUT 2R(G)
4 AUDIO OUT 2R(X)
CN57 25-15
1 AUDIO OUT 1L(X)
2 AUDIO OUT 1L(G)
3 AUDIO OUT 1R(G)
4 AUDIO OUT 1R(X)
CN58 71-3
1 AUDIO MONI OUT
2 GND (G)
3 GND
CN59 FAN MOTOR
1 MOTOR 18V
2 MOTOR GND
3 MOTOR 18V
4 MOTOR GND
CN60 83-2
1 +15V
2 GND
3
CN61 42-1
1 +15V
2 GND
3 +7.5V
4 GND
CN62 84-9
1 +15V
2 +7.5V
3 GND
4 GND
CN75 81-38
1 PB FM (X)
2 PB FM (G)
CN76 81-48
1 CNR C (X)
2 CNR C (G)
38-13 CN63
+15V 1
+7.5V 2
GND 3
GND 4
MOTOR 12V 5
MOTOR GND 6
SW REG CN64
REG +12V 1
GND 2
REG +18V 3
GND 4
SW REG CN65
REG -15V 1
GND 2
81-26 CN66
COMB X (G) 1
COMB X (X) 2
91-3 CN67
+15V 1
REC SAFE 15V 2
88-2 CN68
+15V 1
GND 2
CH1/LCH METER 3
CH2/LCH METER 4
21-2 CN69
REC SAFE 15V 1
GND 2
81-13 CN70
GND 1
AFC FM (X) 2
CLAMP PULSE(X) 3
SYNC (X) 4
TAPE V (X) 5
GND 6
81-12 CN71
MODE2 1
MODE1 2
WCLKB 3
WCLK 4
GND 5
84-10 CN72
L:FREEZE DET 1
L:TBC EN 2
L:TBC DET 3
L:TBC INT 4
H:FM DET 5
L:DET S 6
L=688 DET 7
83-4 CN73
VIDEO PHS (X) 1
(G) 2
SW REG CN74
REG +15V 1
GND 2
REG +7.5V 3
GND 4
FAN MOTOR
FAN MOTOR
SW REG
82-74
1 REG +15V
2 GND
3 REG +7.5V
4 GND
82-65
1 REG -15V
2 GND
82-64
1 REG +12V
2 GND
3 REG +18V
4 GND
CN2
1 NEUTRAL
2 LIVE
CN1
1 LIVE
2 LIVE
POWER SW
AC INLET
N
L
FUSE
F1 2.5A
81-9 CN4
+12V 1
GND 2
L-SET UP 3
C VARIABLE 4
Y VARIABLE 5
Y LEVEL CONT 6
Y SET UP CONT 7
C LEVEL CONT 8
73 REAR3
CN1 24-1
1 AUDIB IN 1L(H)
2 AUDIB IN 1L(C)
3 GND
CN2 24-2
1 AUDIB IN 1R(H)
2 AUDIB IN 1R(C)
3 GND
CN3 24-3
1 AUDIB IN 2L(H)
2 AUDIB IN 2L(C)
3 GND
CN4 24-4
1 AUDIB IN 2R(H)
2 AUDIB IN 2R(C)
3 GND
CN5 25-11
1 N AUDIB OUT1 (H)
2 N AUDIB OUT1 (C)
3 GND
CN6 25-12
1 N AUDIB OUT2 (H)
2 N AUDIB OUT2 (C)
3 GND
CN7 25-13
1 H AUDIB OUT1 (H)
2 H AUDIB OUT1 (C)
3 GND
CN8 25-14
1 H AUDIB OUT2 (H)
2 H AUDIB OUT2 (C)
3 GND
74 REAR4
CN3 82-17
1 R-Y OUT (X)
2 R-Y OUT (G)
3 B-Y OUT (X)
4 B-Y OUT (G)
5 Y OUT (X)
6 Y OUT (G)
CN1 83-1
1 +12V
2 GND
3 V LEVEL DC
4 C LEVEL DC
5 C PHASE DC
6 SET UP DC
7 V LEVEL UN
8 C LEVEL UN
9 C PHASE UN
10 SET UP UN
CN2 84-11
1 FREEZE EN
2 GND
CN5 82-18
1 HEV DC (G)
2 HEV DC (X)
3 L:TBC CN
4 L:TBC INT
82 MOTHER 2

4.5 MOTHER-1 CIRCUIT BOARD (BR-S822/BR-S622/BR-S522)

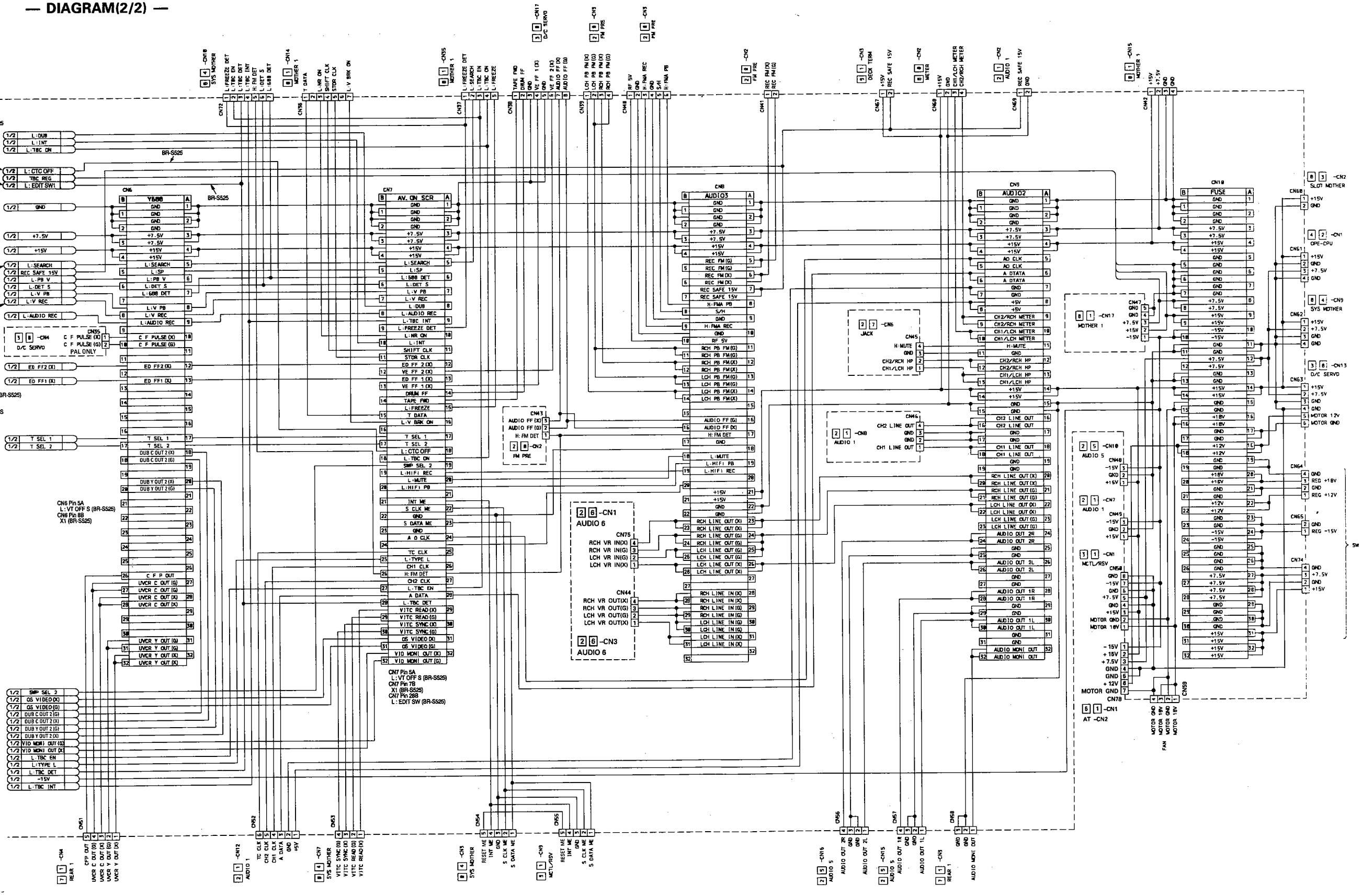


4.6 MOTHER-2 SCHEMATIC DIAGRAM

— DIAGRAM(1/2) —

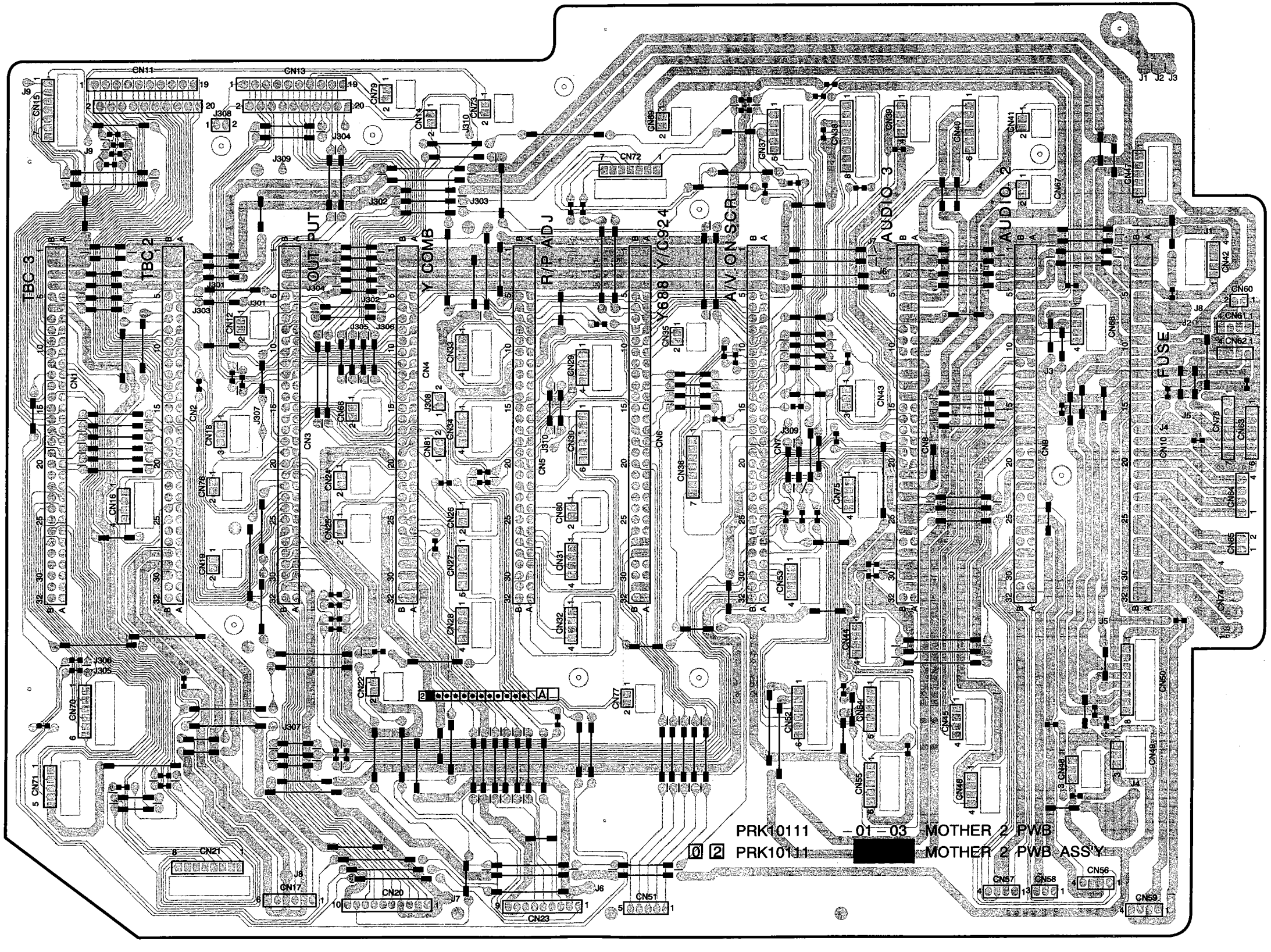


— DIAGRAM(2/2) —

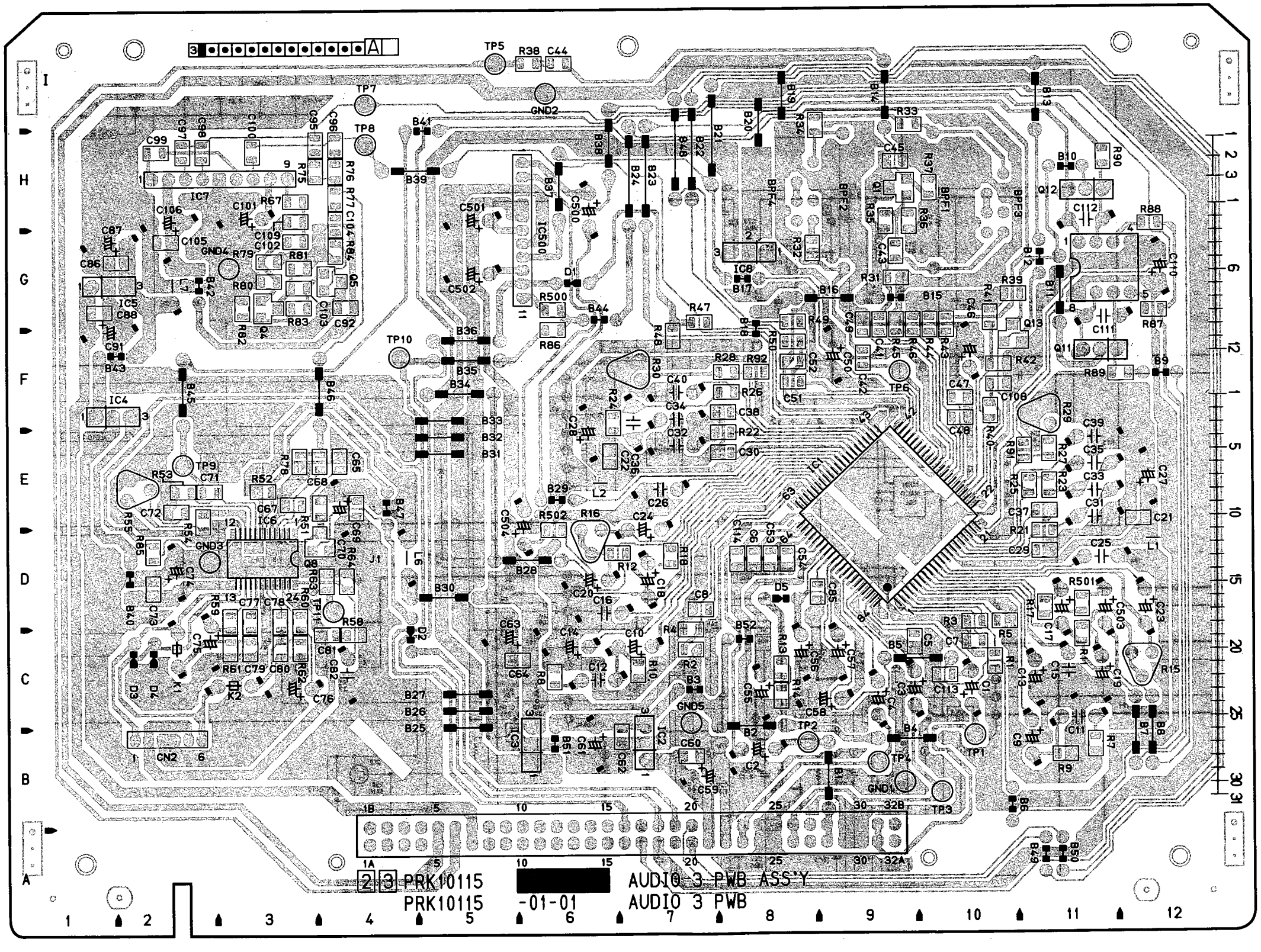


A	B		4-11	4-11	E	F	G	H
		MOTHER BOARD 2 SCHEMATIC						

4.7 MOTHER-2 CIRCUIT BOARD

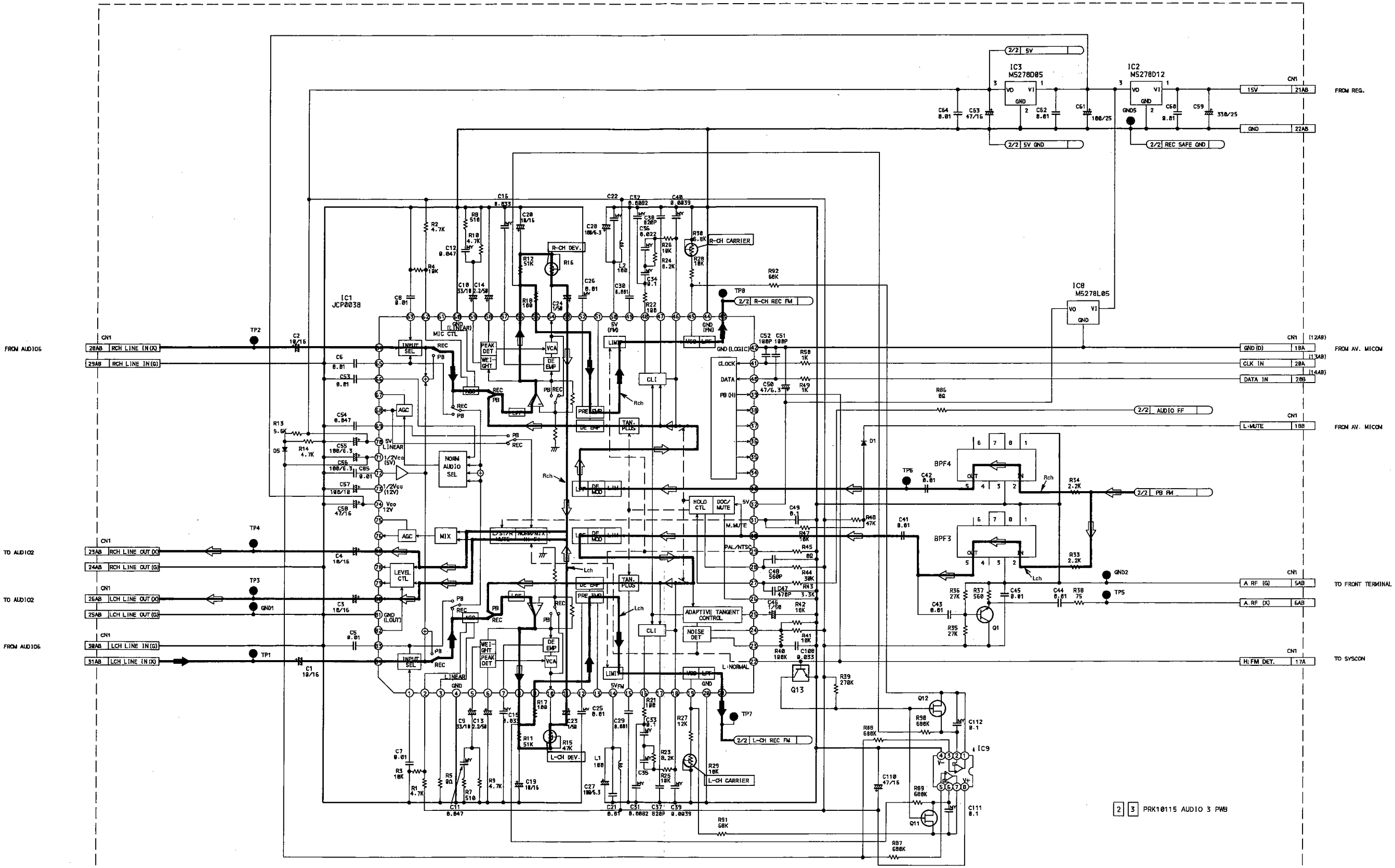


4.8 AUDIO-3 CIRCUIT BOARD



4.9 AUDIO-3 SCHEMATIC DIAGRAM

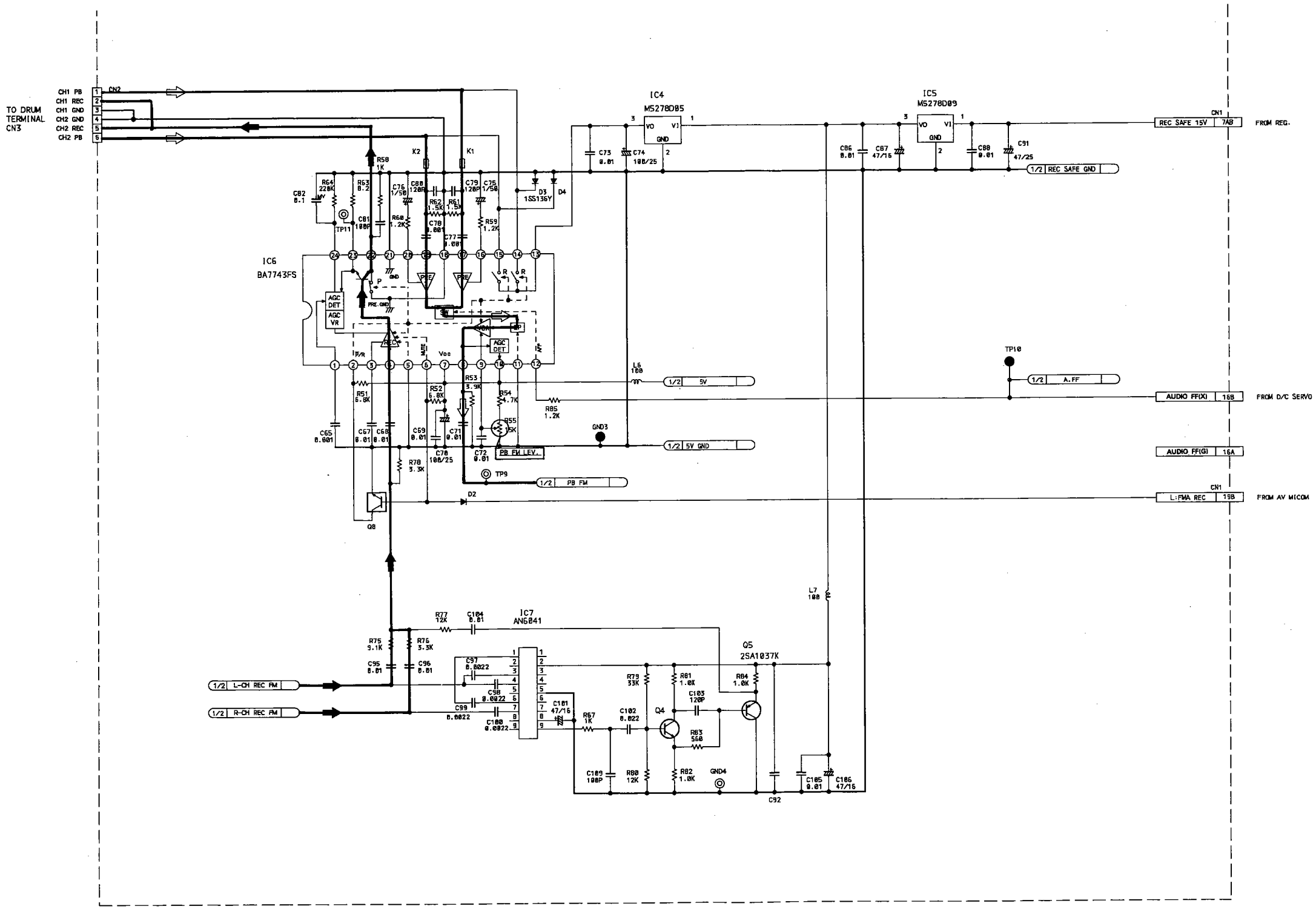
— DIAGRAM (1/2) —



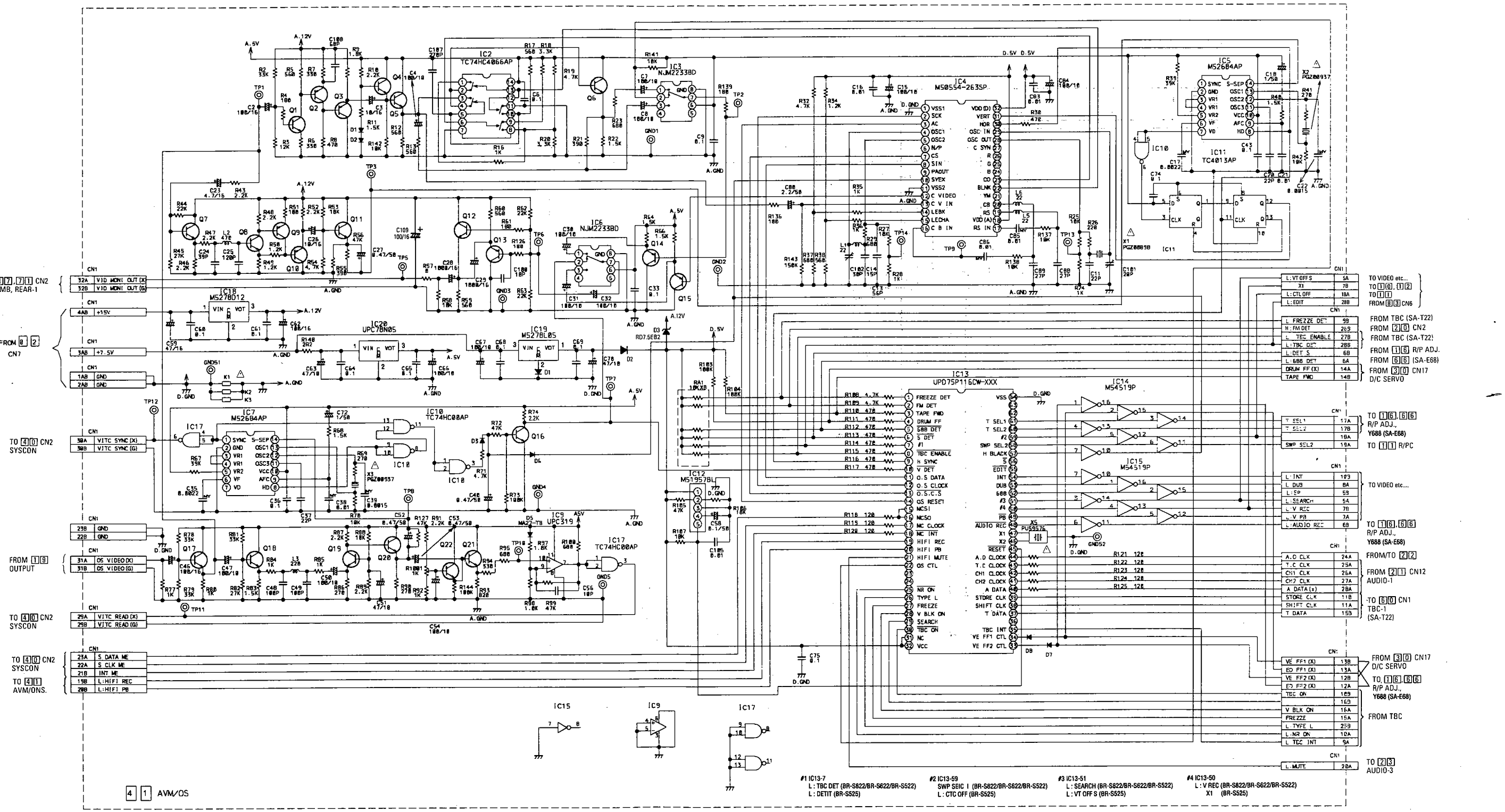
NOTE:UNLESS OTHERWISE SPECIFIED:
ALL NPN TRANSISTORS ARE 2SC2412K
ALL PNP TRANSISTORS ARE 2SA1037K
ALL NPN DIGITAL TRANSISTORS ARE DTC124EK
ALL PNP DIGITAL TRANSISTORS ARE DTA124EK
ALL DIODES ARE 1SS133Y
ALL RESISTANCE VALUES ARE IN OHMS. (1/10W)
ALL INDUCTANCE VALUES ARE IN μH.
ALL CAPACITANCE VALUES ARE IN uF.

ELECTROLYTIC
CERAMIC
MYLAR

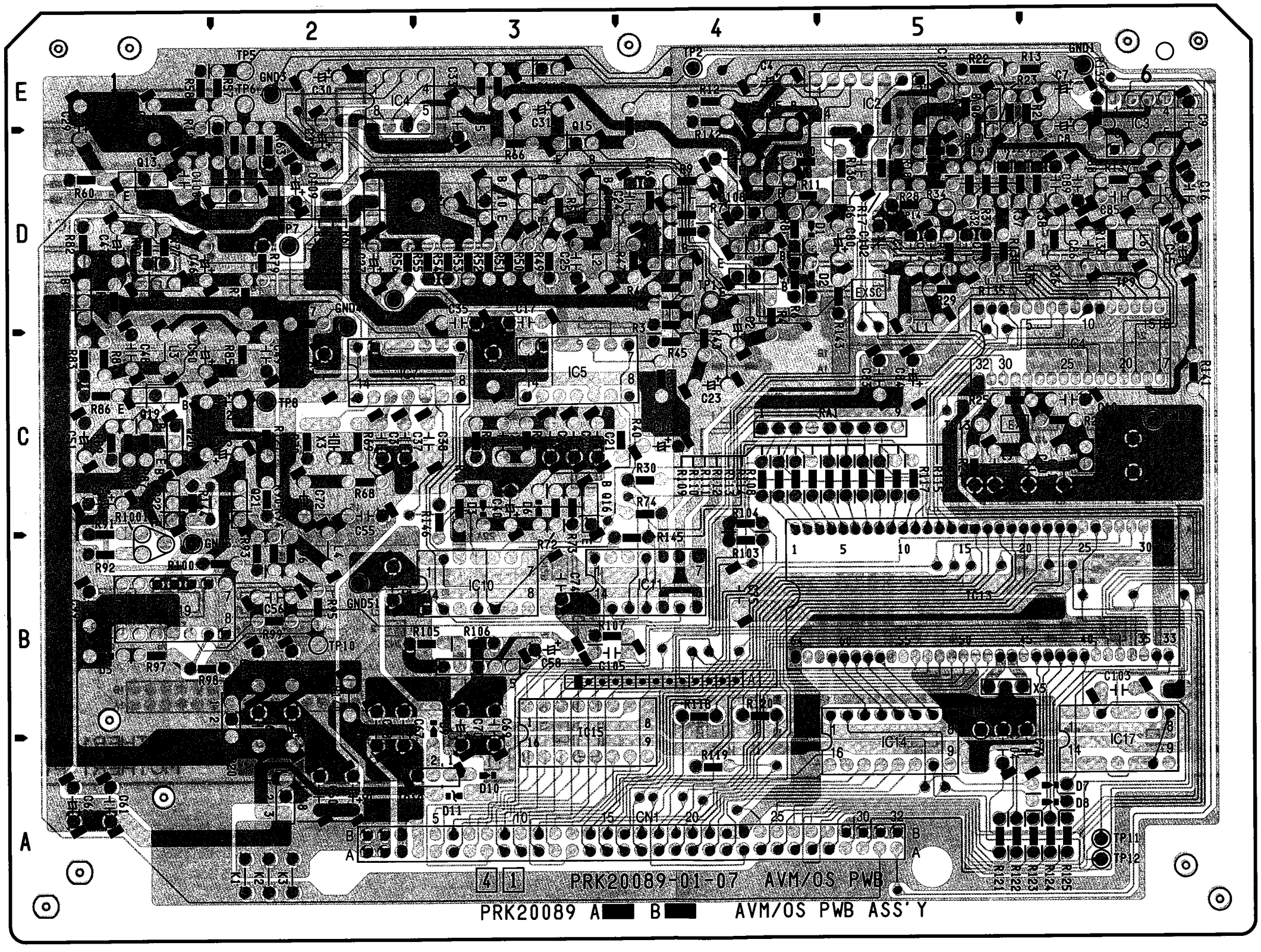
— DIAGRAM (2/2) —


TO DRUM TERMINAL CN3
CH1 PB
CH1 REC
CH1 GND
CH2 GND
CH2 REC
CH2 PB
CN2
IC4
M5278D85
IC5
M5278D09
VO
V1
GND
CN1
REC SAFE 15V
7AB
FROM REG.
1/2 REC SAFE GND
IC6
BA7743FS
AGC DET
AGC VR
PRE GND
SW
Vcc
MUTE
F/R
APC
TP10
1/2 A.FF
AUDIO FF(X)
18B
FROM D/C SERVO
1/2 5V
1/2 5V GND
GND3
PB FM LEV.
TP9
1/2 PB FM
AUDIO FF(G)
16A
D2
Q8
L:FMA REC
19B
FROM AV MICOM
L7
10B
IC7
AN6841
Q5
2SA1037K
Q4
1/2 L-CH REC FM
1/2 R-CH REC FM
GND4
C92

4.10 AV MICOM/ONSCREEN CIRCUIT BOARD

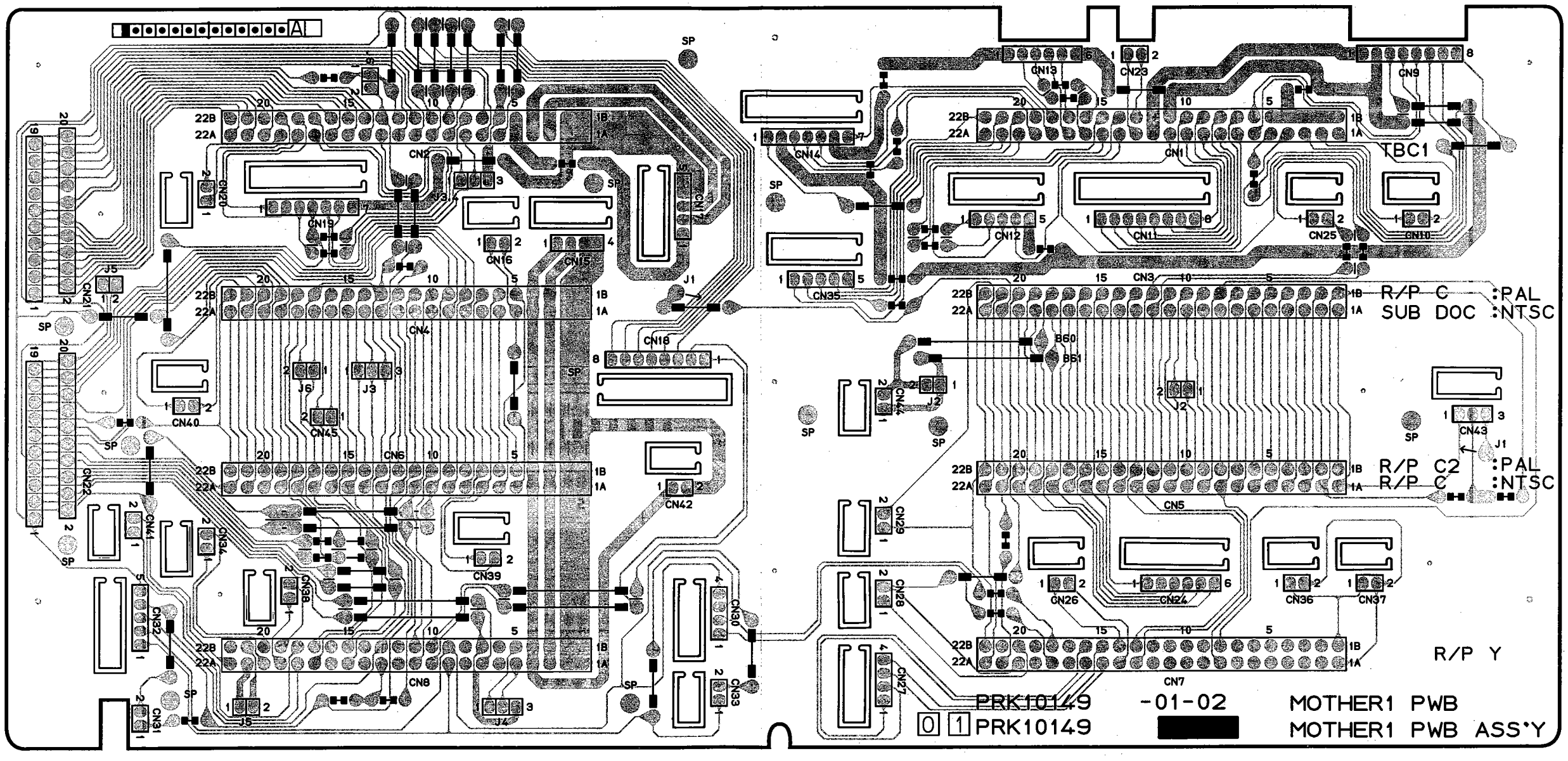


4.11 AV MICOM/ONSCREEN SCHEMATIC DIAGRAM



A	B	C	4-17	4-17	E	F	G	H

4.12 MOTHER-1 CIRCUIT BOARD (BR-S525)



SECTION 5
EXPLODED VIEWS AND PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

NOTE: "X " indicates quantity per set.

Page

EXPLODED PART NUMBER CODING

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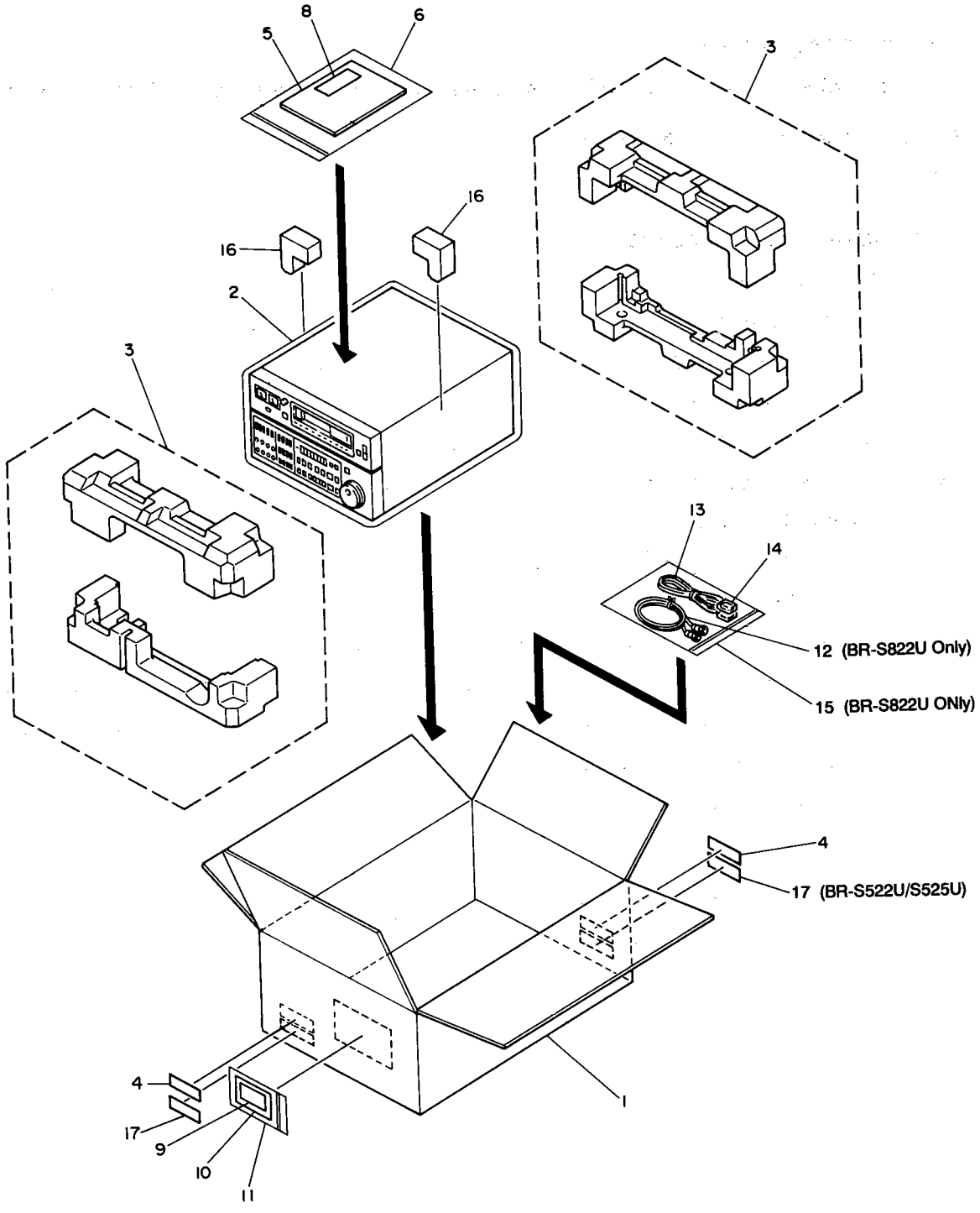
5.10.2 Operation panel assembly <MB> 5-20

EXPLODED PART NUMBER CODING

5.1 PACKING ASSEMBLY <M1>



PACKING ASSEMBLY M1

M1MM□□□□

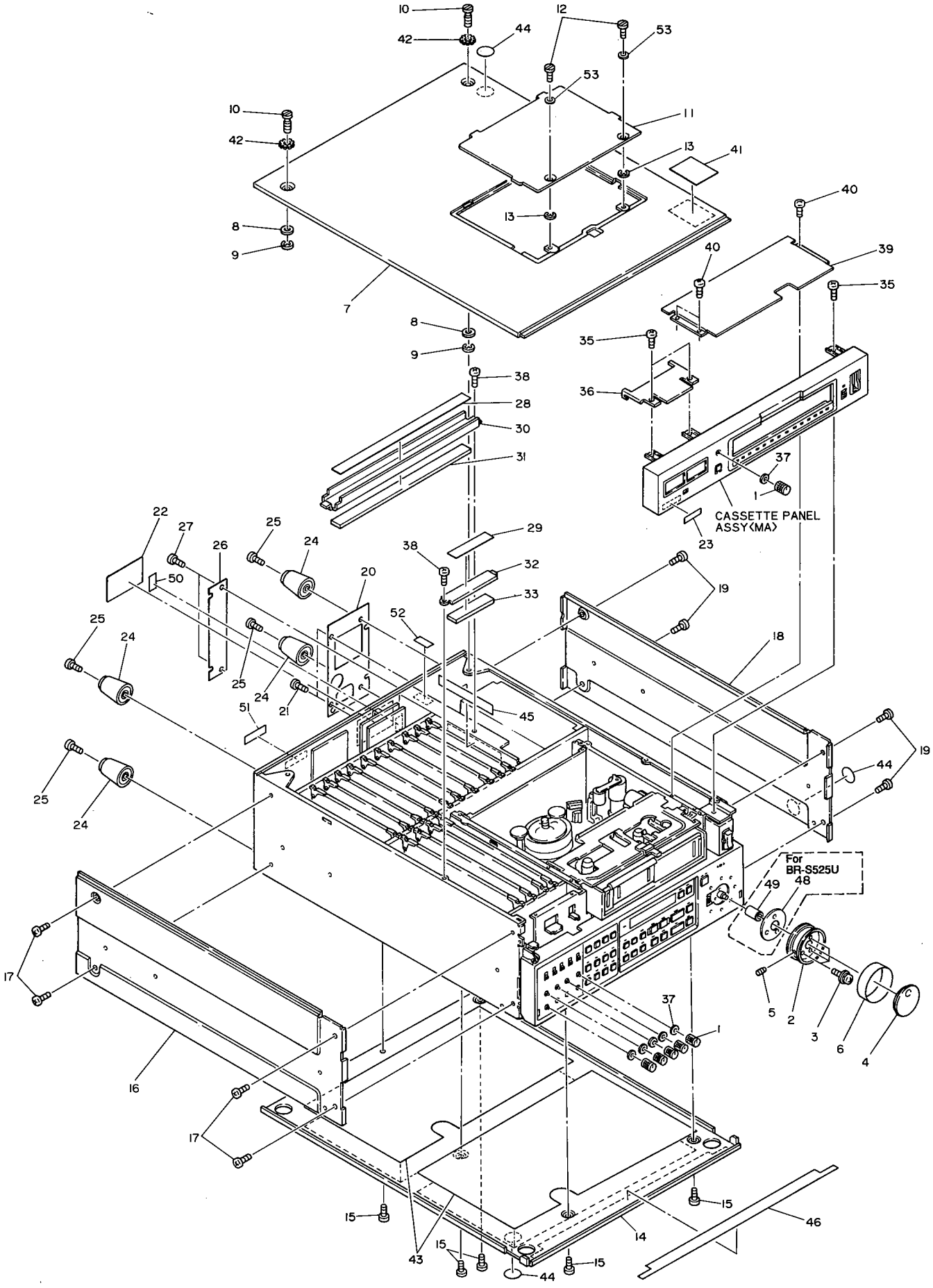
#⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

PACKING ASSEMBLY <M1>

	1	PRD20370-02-01	PACKING CASE, S822U
	1	PRD20370-04-01	PACKING CASE, S622U
	1	PRD20370-08	PACKING CASE, S522U
	1	PRD20370-12	PACKING CASE, S525U
	2	PGD30005-05	PE BAG
	3	PRD10251A-02	CUSHION ASSY
	4	PUP40619	SERIAL NO.STICKER, X2
⚠	5	PGD30002-258-04	INSTRUCTIONS, S822U
⚠	5	PGD30002-259-03	INSTRUCTIONS, S622U
⚠	5	PGD30002-282-02	INSTRUCTIONS, S522U
⚠	5	PGD30002-294-03	INSTRUCTIONS, S525U
	6	QPGB024-03404	POLY BAG
⚠	8	PU33941-3-3	SAFETY CAUTION
	9	BT-20104A	TOLL FREE CARD
	10	BT-20103A	WARRANTY CARD
	11	PU54821	POLY BAG
	12	PGZ00793-006	CABLE ASSY, S822U
⚠	13	QMP9003-022	POWER CORD
	14	PUP40003-7	AIR CAP
	15	QPGB020-02804	POLY BAG, S822U
	16	PRD30848	SPACER CUSHION, X2
	17	PRD43892	LABEL(PACKING), X2, S522U/S525U

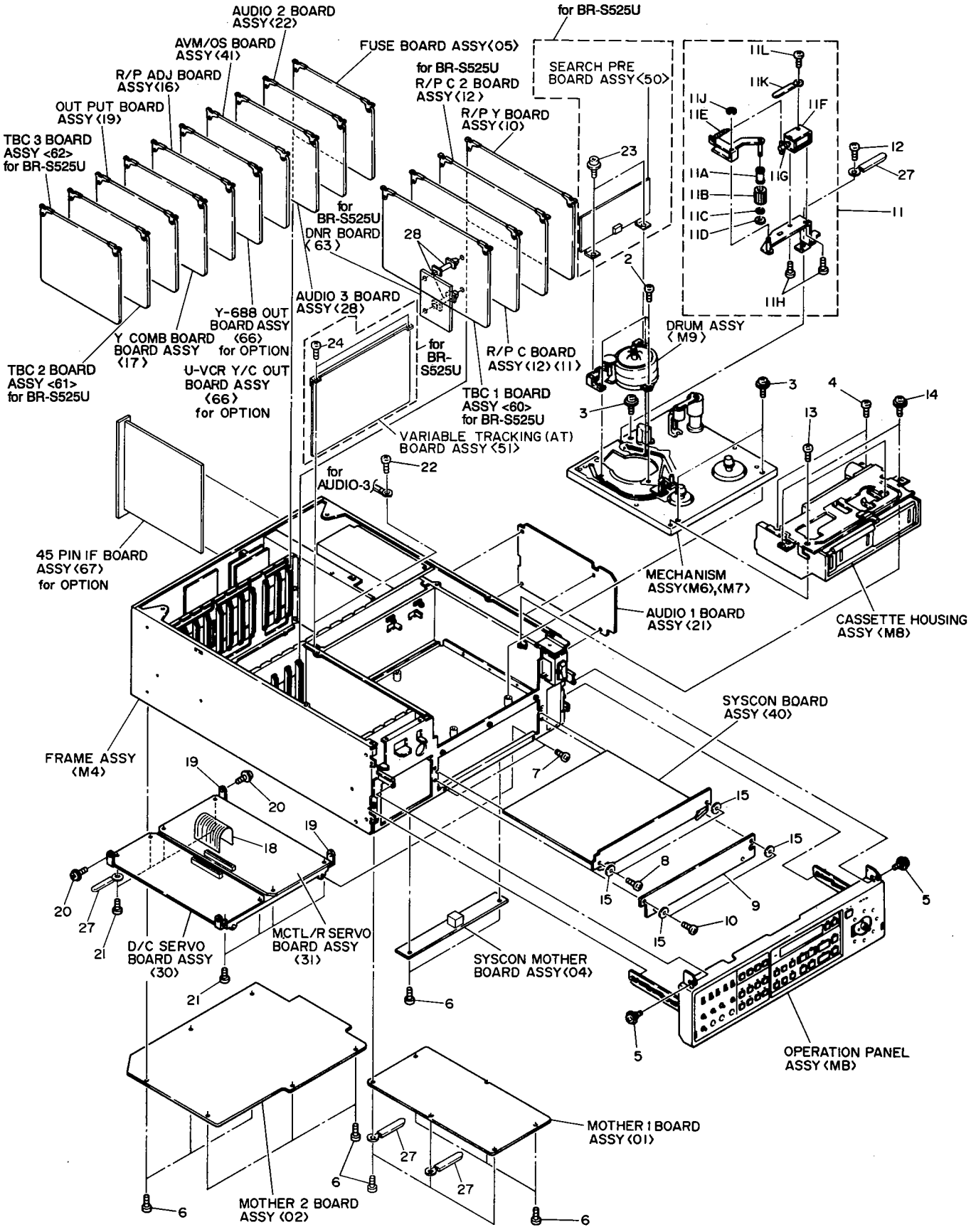
5.2 CABINET ASSEMBLY <M2>



CABINET ASSEMBLY <M2>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	PRD43431A-01	VR KNOB ASSY, X6
	2	PRD30196-03	SEARCH KNOB
	3	DPSP2006Z	SCREW, X3, S822U/S622U/S522U
	3	DPSP2012Z	SCREW, X3, S525U
	4	PRD41819B	JOG KNOB ASSY
	5	YWS3004B	SET SCREW
	6	PRD41818	TIRE
	7	PRD10247A-03	TOP COVER ASSY
	8	PGD40255-02	SPACER, X2
	9	REE3000	"E" RING, X2
	10	PRD30081-03	COIN SCREW, X2
	11	PRD30841-01-01	COVER
	12	PRD30081-01-01	COIN SCREW, X2
	13	REE2500	"E" RING, X2
⚠	14	PRD10232-01-03	BOTTOM COVER
	15	SDST3008Z	SCREW, X5
⚠	16	PRD10233-01-04	LEFT SIDE COVER
	17	SDSP4008R	SCREW, X4
⚠	18	PRD10234-01-04	RIGHT SIDE COVER
	19	SDSP4008R	SCREW, X4
⚠	20	PRD30730-02-04	REAR PANEL(B)
	21	SDSP3006R	SCREW, X2
⚠	22	PGD30021-59-32	RATING LABEL, S822U
⚠	22	PGD30021-57-32	RATING LABEL, S622U
⚠	22	PRD30085-07-20	RATING LABEL, S522U
⚠	22	PRD30085-13-20	RATING LABEL, S525U
	23	PQ40111-1-5	SERIAL NO PLATE
	24	QZF2319-001	FOOT, X4
	25	SDSP4018M	SCREW, X4
⚠	26	PRD43423-01-04	REAR PANEL(C)
	27	SDSP3006R	SCREW, X2
	28	PRD30802-01-02	BOARD LABEL(A)
	29	PRD43611-01-02	BOARD LABEL(B), S822U/S622U/S522U
	29	PRD43611-03	BOARD LABEL(B), S525U
	30	PRD30840-01-02	BOARD HOLDER(A)
	31	PRD30030-117	PAD
	32	PRD44218	BOARD HOLDER(B)
	33	PRD30030-118	PAD
	35	SDST3008Z	SCREW, X3
	36	PRD30835-01-01	TOP PLATE(L)
	37	PGD40292	FELT WASHER, X6
	38	SBST3006Z	SCREW, X2
	39	PRD20412	HOUSING COVER
	40	SDST3008Z	SCREW, X3
	41	PGD41496-04	LABEL
	42	WBS4000N	WASHER, X2
	43	PRD30858	SHEET, X2
⚠	44	PU53146	CAUTION LABEL, X3
⚠	45	PGD40888	CAUTION LABEL
	46	PRD30861	SPACER
	48	PRD44134	SPACER, S525U
	49	PRD30026-47	COLLAR, S525U
⚠	50	SS410172	CSA LABEL
⚠	or	PGD40147-07	CSA LABEL
	51	PRD43814	LABEL(PATENT)
⚠	52	PU54551	CAUTION LABEL
	53	WNB3000N	WASHER, X2

5.3 CHASSIS ASSEMBLY <M3>


AUDIO 2 BOARD ASSY(22)
AVM/OS BOARD ASSY(41)
R/P ADJ BOARD ASSY(16)
OUT PUT BOARD ASSY(19)
TBC 3 BOARD ASSY <62> for BR-S525U
TBC 2 BOARD ASSY <61> for BR-S525U
Y COMB BOARD BOARD ASSY (17)
Y-688 OUT BOARD ASSY (66) for OPTION
U-VCR Y/C OUT BOARD ASSY (66) for OPTION
45 PIN IF BOARD ASSY(67) for OPTION
FUSE BOARD ASSY(05)
for BR-S525U
R/P C 2 BOARD ASSY(12)
R/P Y BOARD ASSY(10)
for BR-S525U DNR BOARD (63)
AUDIO 3 BOARD ASSY(28)
for AUDIO-3
for BR-S525U
R/P C BOARD ASSY(12)(11)
TBC 1 BOARD ASSY <60> for BR-S525U
VARIABLE TRACKING (AT) BOARD ASSY(51)
SEARCH PRE BOARD ASSY(50)
DRUM ASSY (M9)
MECHANISM ASSY(M6),(M7)
AUDIO 1 BOARD ASSY(21)
CASSETTE HOUSING ASSY (M8)
SYSCON BOARD ASSY (40)
FRAME ASSY (M4)
D/C SERVO BOARD ASSY (30)
MCTL/R SERVO BOARD ASSY (31)
SYSCON MOTHER BOARD ASSY(04)
OPERATION PANEL ASSY (MB)
MOTHER 1 BOARD ASSY (01)
MOTHER 2 BOARD ASSY (02)

CHASSIS ASSEMBLY [M][3] [M][3][M][M]□□□□

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

CHASSIS ASSEMBLY <M3>

	2	LPSP2612Z	SCREW, X3
	3	LPSP4016Z	SCREW, X3
	4	PRD30027-04	SCREW, X2
	5	PRD30082	FLANGE SCREW, X2
	6	GBST3006Z	SCREW, X14
	7	SDST3006M	SCREW, X2
	8	PRD43457-01-01	SCREW, X2
	9	PRD30767	COVER
	10	PRD43457-01-01	SPECIAL SCREW, X2
	11	PRD30797A-03	HEAD CLEANER ASSY
	11A	PRD42664	CLEANER HOLDER
	11B	PRD40510-01-02	CLEANER
	11C	Q03093-829	WASHER
	11D	PQM30017	SLIT WASHER
	11E	PRD30024-62	TENSION SPRING
⚠	11F	PU59401-2	SOLENOID
	11G	PRD30023-36	COMPRESSION SPRING
	11H	SPSP2003Z	SCREW, X2
	11J	REE2500	"E" RING
	11K	PU49485-3	WIRE CLAMP
	11L	SPSP2003Z	SCREW
	12	PRD30027-04	SCREW
	13	SDSP2608Z	SCREW, X2
	14	GBST3008Z	FLANGE SCREW, X2
	15	Q03093-517	WASHER, X4
	18	PGW0205-040100	FLAT WIRE
	19	PRD30762-01-02	BOARD BRACKET, X2
	20	PRD30082	FLANGE SCREW, X2
	21	GBST3006Z	SCREW, X8
	22	SBST3006Z	SCREW
	23	PRD30027-04	SCREW. X2, S525U
	24	SDST3008Z	SCREW, X2, S525U
	27	PU49485-4	WIRE CLAMP, X4
	28	PGZ01786-02	PWB SPACER, X2, S525U

FRAME ASSEMBLY [M][4]

[M][4][M][M]□□□□

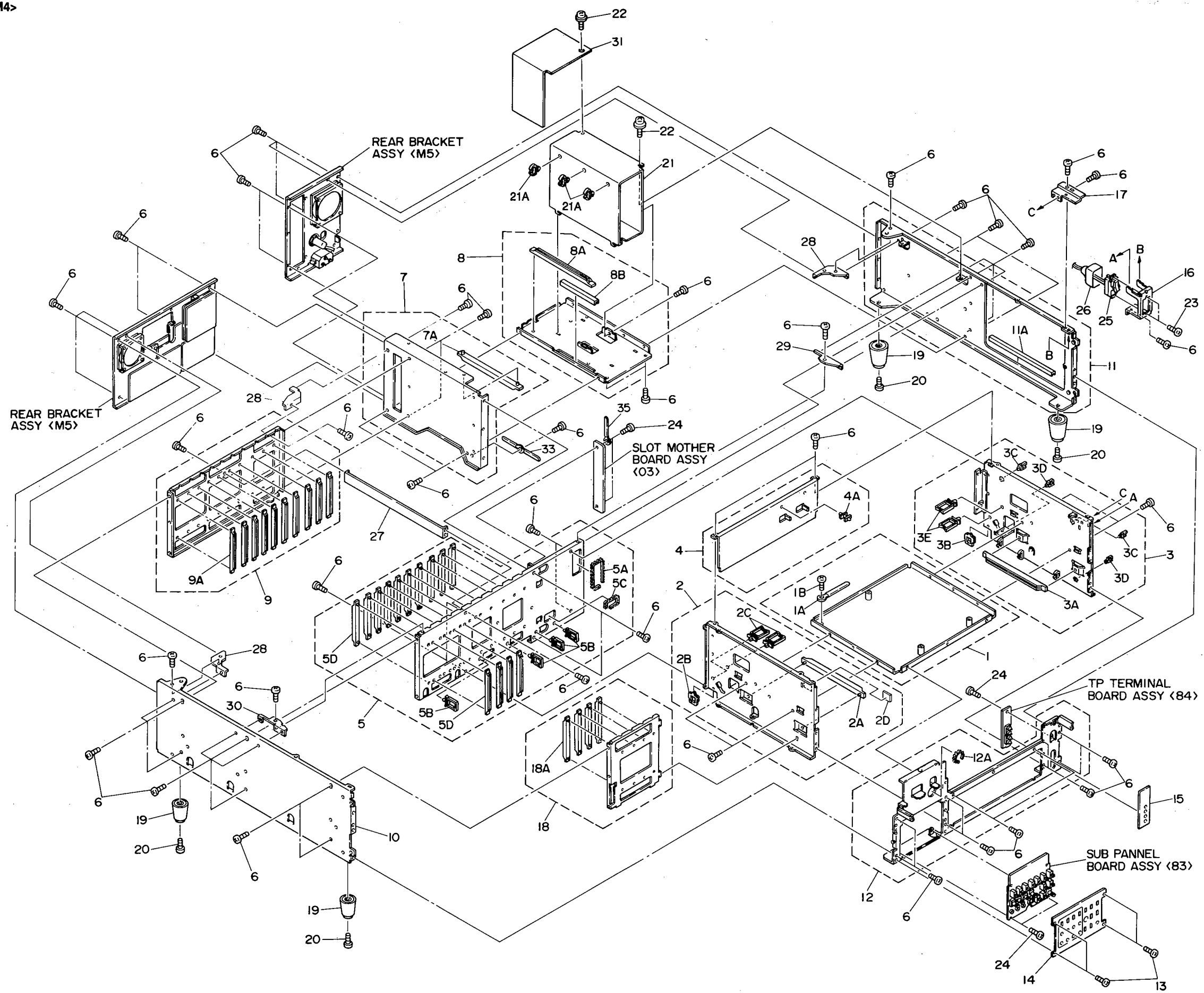
#⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

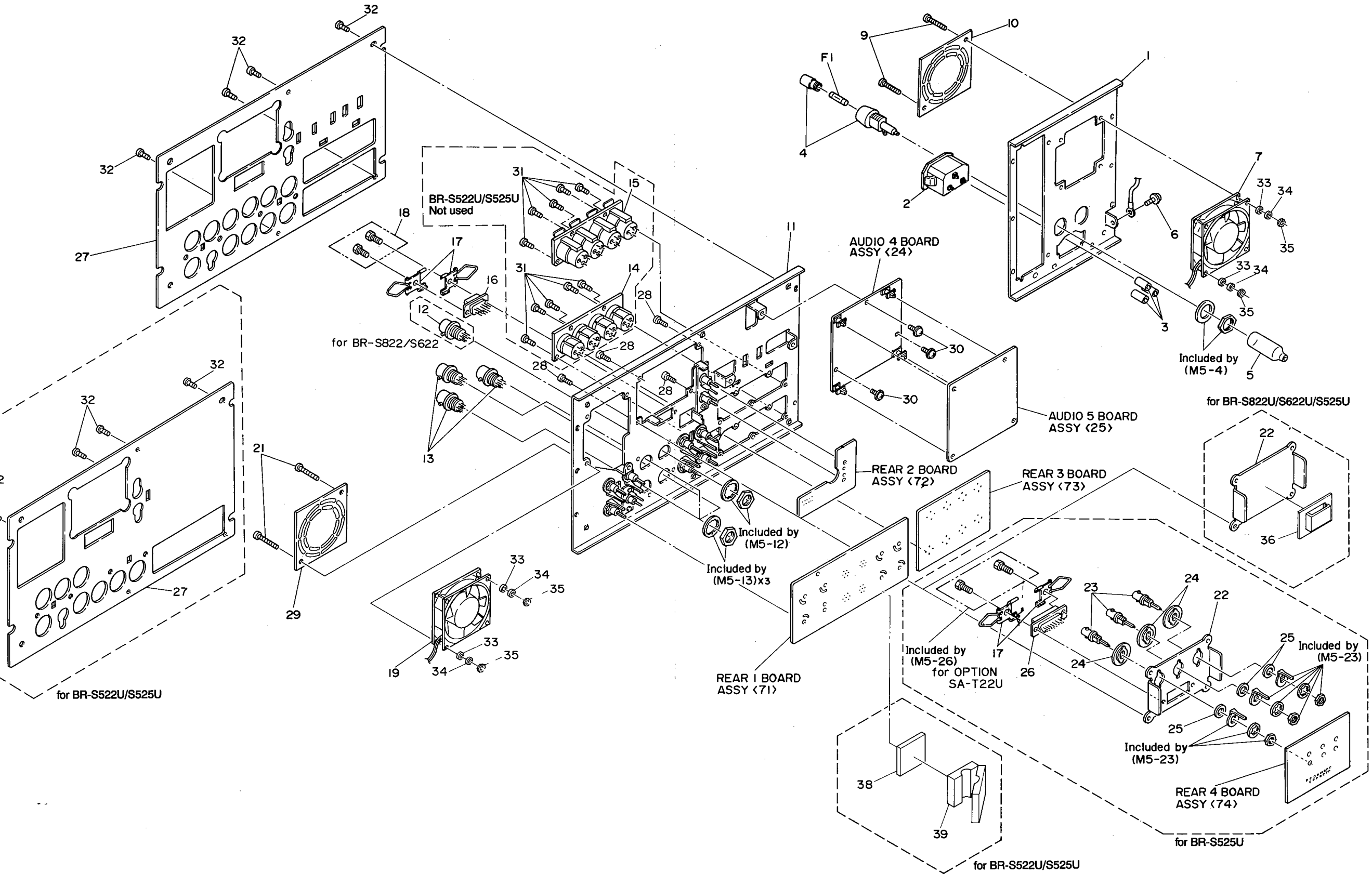
FRAME ASSEMBLY <M4>

	1	PRD20354A-06	MECHA HOLDER ASSY
	1A	PU49485-4	WIRE CLAMP
	1B	SBST3006Z	SCREW
	2	PRD20374A-06	LEFT STAY ASSY
	2A	PGZ00493-03	GUIDE RAIL
	2B	PU49881	EDGE COVER
	2C	PU43147-3	WIRE SADDLE, X2
	2D	PRD30030-70	PAD
	3	PRD20375A-07	RIGHT STAY ASSY
	3A	PGZ00493-03	GUIDE RAIL
	3B	PU49881	EDGE COVER
	3C	PGZ00605	BOARD SPACER, X2
	3D	PGZ00606	BOARD HOLDER, X2
	3E	PU43147-3	WIRE SADDLE, X2
	4	PRD20378B	CENTER BRACKET ASSY
	4A	PU48016-2	M CLAMP
	5	PRD20366A-07	CENTER FRAME ASSY
	5A	PU43172-9-120	NYLON GROMMET
	5B	PGZ00452-02	WIRE CLAMP, X4
	5C	PU43172-9-65	NYLON GROMMET
	5D	PGZ00493-02	GUIDE RAIL, X14
	6	SBST3006Z	SCREW, X65
	7	PRD20376A-01	GUIDE FRAME ASSY
	7A	PGZ00493-03	GUIDE RAIL
	8	PRD20377A-03	POWER FRAME ASSY
	8A	PGZ00493-03	GUIDE RAIL
	8B	PU43135-1-100	NYLON EDGGING
	9	PRD20367A-03	REAR FRAME(C)ASSY
	9A	PGZ00493-02	GUIDE RAIL, X10
	10	PRD10237-01-03	LEFT SIDE FRAME
	11	PRD10273A-01	RIGHT SIDE FRAME ASSY
	11A	PU43153-1-200	NYLON EDGGING
	12	PRD10248A-04	FRONT FRAME ASSY
	12A	PU43172-9-89	NYLON GROMMET
	13	SPST3006M	SCREW, X4
	14	PRD30736-03-05	SUB PANEL(A), S822U/S622U
	14	PRD30736-02-05	SUB PANEL(A), S522U
	14	PRD30736-04-05	SUB PANEL(A), S525U
	15	PRD43433	SUB PANEL(B)
	16	PRD30739-01-04	POWER SWITCH BRACKET ASSY
	17	PRD43708	TOP PLATE(R)
	18	PRD30743A-01	FRONT BRACKET ASSY
	18A	PGZ00493-02	GUIDE RAIL, X4
	19	PRD43816	FOOT, X4
	20	SBST3010Z	SCREW, X4
⚠	21	PGZ01459-01-05	SWITCHING REGULATOR
	21A	PU59311	WIRE CLAMP, X3
	22	DPSP4008Z	ASSY SCREW, X2
	23	LPSP3006Z	SCREW, X2
	24	GBST3006Z	ASSY SCREW, X5
⚠	25	PGZ00479	SEESAW SWITCH
⚠	26	PRD42023	SWITCH COVER
	27	PRD30836	CONNECTOR STAY
	28	PRD43700	CORNER BRACKET, X3
	29	PRD43709	BRACKET
	30	PRD43709-02	BRACKET
⚠	31	PRD30857	INSULATOR
	33	PU49486	WIRE CLAMP
	35	PU49485-2	WIRE CLAMP

4 FRAME ASSEMBLY <M4>



REAR BRACKET ASSEMBLY <M5>



5-10

REAR BRACKET ASSEMBLY [M][5]

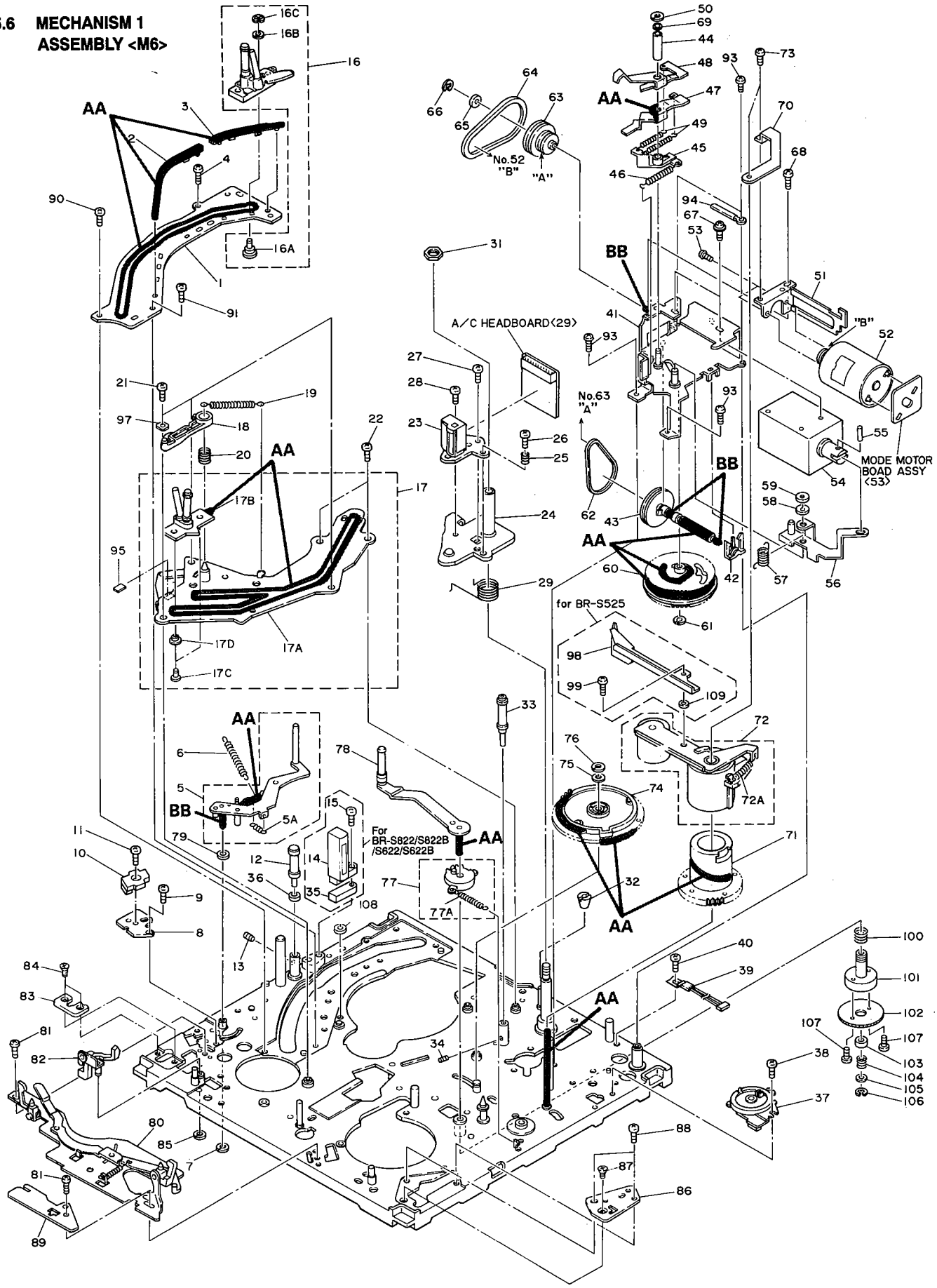
[M][5][M][M][ ][ ][ ][ ]

#⚠	REF No.		PART No.	PART NAME, DESCRIPTION
**********				

REAR BRACKET ASSEMBLY <M5>

	1		PRD20365-01-04	REAR FRAME(B)
⚠	2		PGZ00760	AC INLET
	3		QXT695H-025	V.TUBE, X3
⚠	4		QMG0301-004	FUSE HOLDER
⚠	5		PU50316	FUSE COVER
⚠	6		DPSP4008N	SCREW
⚠	7		PGZ01137	FAN MOTOR
⚠		or	PGZ01974	FAN MOTOR
	9		SDSP3025R	SCREW, X2
		or	SDSP3035R	SCREW, X2
	10		PRD43465-02	FAN GUARD
	11		PGZ01822	REAR FRAME(A) ASSY, S822U/S622U
	11		PGZ01822-02	REAR FRAME(A) ASSY, S522U/S525U
	12		PGZ01729	7P CONNECTOR, S822U/S622U INCL.11
		or	PGZ00592	7P CONNECTOR, S822U/S622U INCL.11
	13		PGZ01730	7P CONNECTOR(OUT), X3 INCL.11
		or	PGZ00593	7P CONNECTOR(OUT), X3 INCL.11
	14		PGZ01208	XLR CONNECTOR, MALE
	15		PGZ01209	XLR CONNECTOR, FEMALE (S822U/S622U)
	16		PGZ01733	9P CONNECTOR, REMOTE, INCL.11
		or	PGZ00915	9P CONNECTOR, REMOTE, INCL.11
	17		PGZ01734	SPRING LOCK, X2, S822U/S622U/S522U
		or	PGZ00924	SPRING LOCK, X2, S822U/S622U/S522U
	17		PGZ01734	SPRING LOCK, X4, S525U INCL.11
		or	PGZ00924	SPRING LOCK, X4, S525U INCL.11
	18		PGZ01735	SCREW, 2 IN 1 INCL.11
		or	PGZ00925	SCREW, 2 IN 1 INCL.11
⚠	19		PGZ01137	FAN MOTOR
		or	PGZ01974	FAN MOTOR
	21		SDSP3025R	SCREW, X2
⚠	22		PRD43424-01-04	REAR PANEL(D), S822U/S622U/S522U
	22		PGZ01698-01-01	REAR PANEL(D)ASSY, S525U
	23		PGZ00440	BNC CONNECTOR, X3, S525U
	24		PU48611	RING, X3, S525U
	25		Q03093-439	WASHER, X3, S525U
	26		PGZ00755	15P CONNECTOR, TBC REMOTE
	26		PGZ01732	15P CONNECTOR(D), S525U
⚠	27		PRD30729-02-06	REAR PANEL(A), S822U/S622U
	27		PRD30729-04	REAR PANEL(A), S522U
⚠	27		PRD30729-04-06	REAR PANEL(A), S525U
	28		SDSP3006R	SCREW, X4
	29		PRD43465-02	FAN GUARD
	30		GBST3006Z	SCREW, X3
	31		SPSP2605N	SCREW, X10, S822U/S622U
	31		SPSP2605N	SCREW, X5, S522U/S525U
	32		SDSP3006R	SCREW, X4
	33		WNS3000N	WASHER, X4
	34		WLS3000N	L.WASHER, X4
	35		NFS3000Z	NUT, X4
	36		PGZ01086	FLAT CABLE CLIP, S822U/S622U/S522U
	38		PRD30083-03	SPACER, X2, S522U/S525U
	39		PGZ01769-05	FERRITE CORE, S522U/S525U
⚠	F1		QMF51J1-3R15N	FUSET3.1A

5.6 MECHANISM 1 ASSEMBLY <M6>



Category	JVC part number	MARK
Grease	MOS2-C	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

MECHANISM 1 ASSEMBLY M6

#⚠ REF No. PART No. PART NAME, DESCRIPTION

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MECHANISM 1 ASSEMBLY <M6>

1	PRD30764-01-05	SUB DECK(S)
2	PQ33994	GUIDE RAIL 1(S)
3	PQ33995	GUIDE RAIL 2(S)
4	SDST2605Z	SCREW
5	PRD44024B-02	TENSION ARM ASSY
5A	PRD30024-65	TENSION SPRING
6	PRD43714	TENSION SPRING
7	PQM30017	SLIT WASHER
8	PRD43466-01-02	TENSION SENSOR BASE
9	SDSP2004Z	SCREW
10	PU61338	TENSION SENSOR
11	SDSP2604Z	SCREW
12	PRD43721A	GUIDE ROLLER ASSY
13	YFS2603B	SET SCREW
14	PGZ01841	FULL ERASE HEAD, S822U/S622U
15	SDSP2614Z	SCREW, S822U/S622U
16	PRD30821E	POLE BASE (SUPPLY) ASSY
16A	PRD43671-01-02	STOPPER(S2)
16B	Q03093-829	WASHER
16C	REE1500	"E" RING
17	PRD43747A-06	LOADING (TAKE-UP) ASSY
17A	PRD43746A-03	GUIDE RAIL ASSY
17B	PRD30864B	POLE BASE (TAKE-UP) ASSY
17C	PRD43819	SPECIAL SCREW, X2
17D	PRD43875	COLLAR
18	PQ34000	C.GUIDE ARM
19	PQM30001-317	TENSION SPRING
20	PQM30002-207	C SPRING
21	SDST2605Z	SCREW, X3
22	SDST2608Z	SCREW, X2
23	PGZ01840	AUDIO/CONTROL HEAD
24	PRD44167A	HEAD ARM ASS'Y
25	PQM30002-197	COMPRESSION SPRING
26	SDSP2612Z	SCREW
27	PQ44621	SPECIAL SCREW
28	PQ43687B	SPECIAL SCREW
29	PQ44119	TORSION SPRING
31	PQ40353	NYLON NUT
32	PRD44241	TAPER NUT
33	PRD44151A-01	GUIDE ROLLER ASSY
34	PQ45295	SPECIAL SCREW
35	PQ45325	FULL ERASE HEAD BASE, S822U/S622U
36	PQ45294	"O" RING
37	PU61339-1-1	ROTARY ENCORDER
38	SDSP2004Z	SCREW
39	PU61357	DEW SENSOR
40	SDSP2004Z	SCREW
41	PRD44105A	SOLENOID BRACKET ASS'Y
42	PQ44129	WORM BEARING 2
43	PRD44122A	W.GEAR ASSY
44	PRD44108	COLLAR
45	PQ33992-1-1	LOCK LEVER 1

M6MM□□□□

#⚠ REF No. PART No. PART NAME, DESCRIPTION

46	PQM30001-313	TENSION SPRING
47	PRD44109	LOCK LEVER 2
48	PRD30972	LOCK LEVER 3
49	PQM30001-314	TENSION SPRING, X2
50	PQM30017-6	SLIT WASHER
51	PRD30969	MOTOR BRACKET
52	PRD44123A	MODE MOTOR ASSY
53	SPSP3003Z	SCREW, X2
54	PGZ01845-02	SOLENOID
55	PSE3010	SPRING PIN
56	PRD44106A	SOLENOID LEVER ASS'Y
57	PRD44113	TORSION SPRING
58	Q03093-818	WASHER
59	PQM30017-12	SLIT WASHER
60	PQ21313-1-1	CAM GEAR
61	PQM30017-12	SLIT WASHER
62	PRD30022-17	BELT
63	PRD43968	CONNECT PULLEY
64	PRD30022-18	BELT
65	Q03093-829	WASHER
66	REE1200	E RING
67	DPSP3005Z	SCREW, X2
68	SDSP2604Z	SCREW
69	Q03093-825	WASHER
70	PRD44103	ARM
71	PQ21312	P.ROLLER CAM
72	PRD43387A-01	PINCH ROLLER ARM ASSY, S822U/S622U/S522U
or	PRD43387B-01	PINCH ROLLER ARM ASSY, S822U/S622U/S522U
72	PRD43387C	PINCH ROLLER ARM ASSY, S525U
or	PRD43387D	PINCH ROLLER ARM ASSY, S525U
72A	PRD30024-60	TENSION SPRING
73	SDSP2605Z	SCREW, X2
74	PQ21315-1-2	CONTROL CAM
75	Q03093-849	WASHER
76	PQM30017-28	SLIT WASHER
77	PRD43791A-01	GUIDE ARM GEAR ASSY
77A	PRD30024-64	TENSION SPRING
78	PRD43404D-04	GUIDE ARM ASS'Y
79	Q03093-838	WASHER
80	PRD44248A	G.PIN ASS'Y
81	SDSP2605Z	SCREW, X2
82	PRD44184A	REC SAFETY ASSY
83	PRD43890	SOCKET L
84	SSSP2604Z	SCREW, X2
85	PQM30017-6	SLIT WASHER
86	PRD43889	SOCKET R
87	SSSP2604Z	SCREW
88	SDSP2604Z	SCREW, X2
89	PRD44243A	ADJUST PLATE ASSY
90	SDSP2608M	SCREW
91	SPSH2635M	MINI SCREW
93	SDST2605Z	SCREW, X4
94	PU49485-4	WIRE CLAMP
95	PRD43826	SPACER

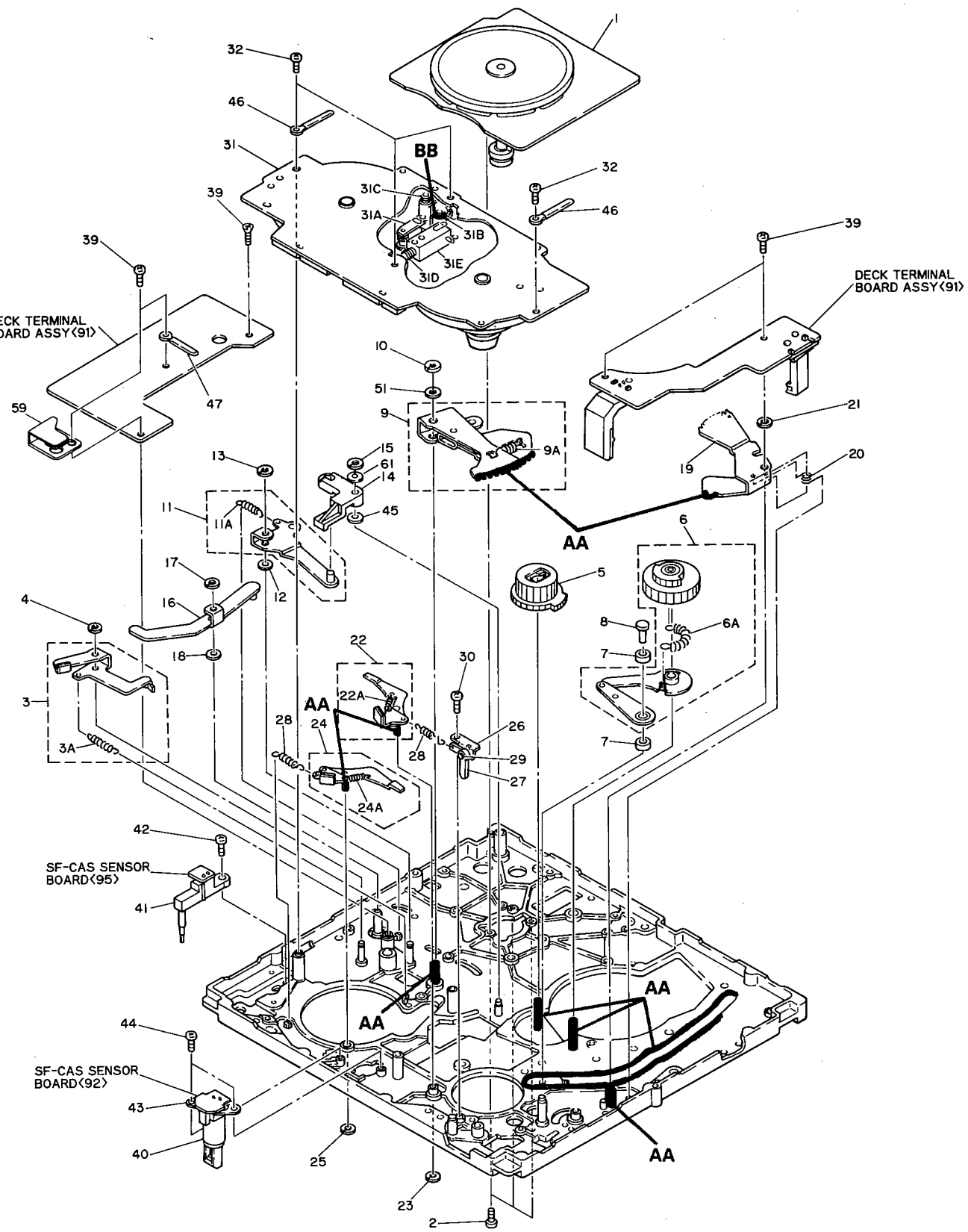
M6MM□□□□

#⚠ REF No. PART No. PART NAME, DESCRIPTION

97	PRD44013-02	STOPPER PLATE
98	PRD43901-01-02	NOISE SHUTTER, S525U
99	DPSP3006Z	SCREW, S525U
100	PRD30023-48	COMPRESSION SPRING
101	PRD43800	BUSHING
102	PRD43802	ADJUST GEAR
103	PRD43804	COLLAR
104	PRD30023-49	COMPRESSION SPRING
105	WSS3000Z	WASHER
106	REE2500	"E" RING
107	SPSP2004Z	SCREW, X2
108	PRD44141	SPACER
109	PRD30029-05	WASHER, S525U

5-13

5.7 MECHANISM 2 ASSEMBLY <M7>



Category	JVC part number	MARK
Grease	MOS2-C	**AA**
Oil	COSMO-HV56	**BB**

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

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MECHANISM 2 ASSEMBLY [M][7]

[M][7][M][M][ ][ ][ ][ ]

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

MECHANISM 2 ASSEMBLY <M7>

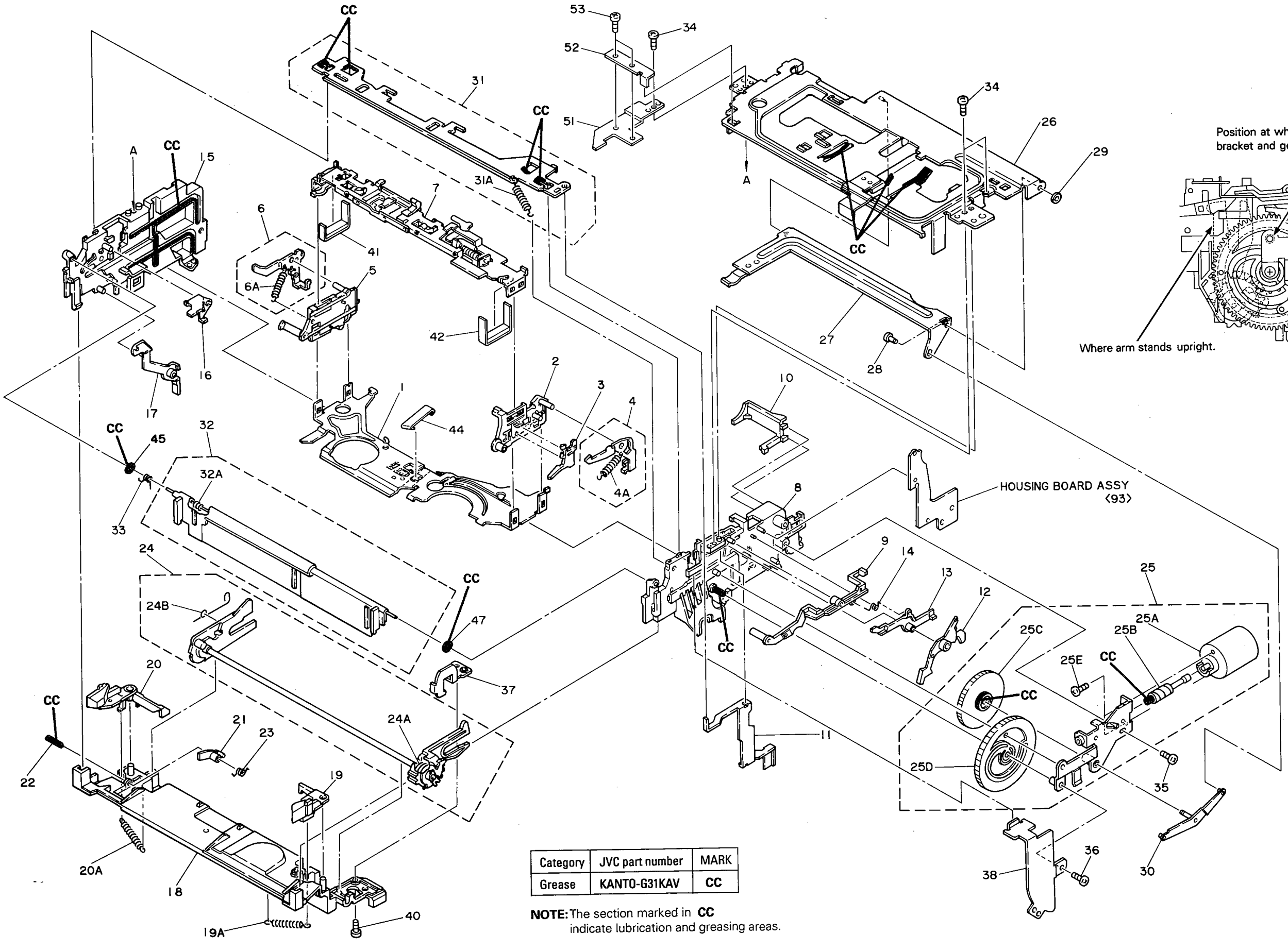
⚠	1	PGZ01535-01-01	CAPSTAN MOTOR
	2	SDSP2608Z	SCREW, X3
	3	PRD43479A-01	R.BRAKE ASS'Y
	3A	PRD30024-58	TENSION SPRING
	4	PQM30017-6	SLIT WASHER
	5	PQ34033	LOADING GEAR(T)
	6	PRD43473A-03	L.GEAR(S)ASS'Y
	6A	PQM30001-318	TENSION SPRING
	7	PRD44019	COLLAR
	8	PRD43818	SPECIAL SCREW
	9	PQ45306B-3	ARM GEAR ASS'Y
	9A	PQM30001-320	TENSION SPRING
	10	REE3000	"E"RING
	11	PQ45304A	F.L.LEVER ASS'Y
	11A	PQM30001-319	TENSION SPRING
	12	Q03093-825	WASHER
	13	PQM30017-6	SLIT WASHER
	14	PQ34005-1-2	LOCK ARM
	15	PQM30017-6	SLIT WASHER
	16	PRD43464A	C.H.LEVER ASS'Y
	17	PQM30017-6	SLIT WASHER
	18	Q03093-825	WASHER
	19	PQ34007	CANCEL LEVER
	20	PQ45313	TORSION SPRING
	21	PQM30017-12	SLIT WASHER
	22	PRD43388A-02	B.LEVER(L)ASS'Y
	22A	PRD30024-53	TENSION SPRING
	23	PQM30017-6	SLIT WASHER
	24	PRD43395A-02	B.LEVER(R)ASS'Y
	24A	PRD30024-53	TENSION SPRING
	25	PQM30017-6	SLIT WASHER
	26	PRD43397A-01	LEVER BASE ASSY
	27	PRD43400	F/C LEVER
	28	PRD43401	TENSION SPRING, X2
	29	PQM30017-25	SLIT WASHER
	30	SDST2604Z	SCREW
⚠	31	PGZ01541A-04	REEL MOTOR
	31A	PGZ01541-001	IDLER GEAR ASSY
	31B	PGZ01541-002	LED HOLDER ASSY
	31C	PGZ01541-003	COMPRESSION SPRING
	31D	PGZ01541-004	COMPRESSION SPRING
	31E	PGZ01541-005	SOLENOID
	32	SDST2606Z	SCREW, X4
	39	SDST2605Z	SCREW, X5
	40	PU61174	CASSETTE SWITCH
	41	PU61008	CASSETTE SWITCH
	42	SDSP2605Z	SCREW
	43	PRD43467-01-01	C.S.SW BASE
	44	SDST2605Z	SCREW, X2
	45	Q03093-825	WASHER
	46	PU49485-4	WIRE CLAMP, X2
	47	PU49485-4	WIRE CLAMP
	51	Q03093-833	WASHER
	59	PRD44006A	STOPPER ASSY

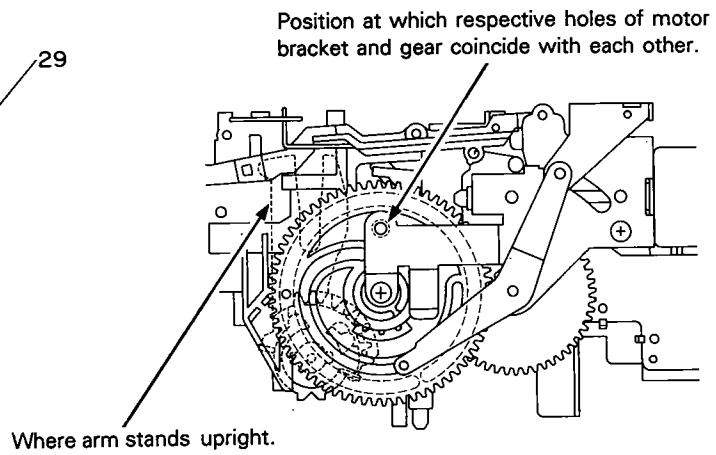
CASSETTE HOUSING ASSEMBLY M8

M8MM□□□□

#⚠ REF No.	PART No.	PART NAME, DESCRIPTION
**********		
	CASSETTE HOUSING ASSEMBLY <M8>	
0	PGS20745B-18	CASSETTE HOUSING ASSY
1	PQ34092A-03	CASSETTE HOLDER ASSY
2	PQ11278-01-01	SIDE HOLDER(R)
3	PQ45459	LID OPENER
4	PQ43596A-5	LOCK LEVER(R) ASSY
4A	PQ43597-1-5	TENSION SPRING
5	PQ11279	SIDE HOLDER(L)
6	PQ45539A-01	LOCK LEVER(L) ASSY
6A	PQ43597-2	TENSION SPRING
7	PQ21327A-09	HOLDER STAY ASSY
8	PQ11281-01-06	HOUSING STAY(R)
9	PQ34096	DOOR SENSOR
10	PQ34097	LID GUIDE
11	PQ45477	FC CHENGE LEVER
12	PQ34098	SENSOR LEVER
13	PQ34099	C INSERT LEVER
14	PQ45478	TORSION SPRING
15	PQ11282-01-07	HOUSING STAY(L)
16	PQ45479-01-02	DOOR STOPPER
17	PQ34100	DOOR OPENER
18	PQ11283-01-03	FRONT BRACKET
19	PQ45480A-02	DOOR LOCK(R) ASSY
19A	PQM30001-340	TENSION SPRING
20	PQ45481A-03	DOOR LOCK(L) ASSY
20A	PQM30001-340	TENSION SPRING
21	PQ45482	C DOOR LOCK
22	PQM30015-93	SHAFT
23	PQ45483-01-01	TORSION SPRING
24	PQ34103A-04	MAIN ARM ASSY
24A	PRD43806	TORSION SPRING
24B	PQ43605	TORSION SPRING
25	PQ34107A-03	DRIVE UNIT ASSY
25A	PQ45489A	MOTOR ASSY
25B	PQ45474	WORM GEAR
25C	PQ34109-01-01	CONNECT GEAR
25D	PQ34110-01-01	IDLER CAM
25E	SPSP3003Z	SCREW, X2
26	PQ34111A-05	TOP FRAME ASSY
27	PQ34112A-01	HOLD PLATE ASSY
28	PQ45464	PIN
29	PQM30017-25	SLIT WASHER
30	PQ45493A	HOLD LEVER ASSY
31	PQ34128A-02	FC PLATE ASSY
31A	PQM30001-341	TENSION SPRING
32	PQ34114A-08	DOOR ASSY
32A	PQ45496-01-02	TORSION SPRING
33	PRD44021	TORSION SPRING
34	SDSF2606Z	SCREW, X3
35	SDSF2608Z	SCREW, X1
36	SDSF2612Z	SCREW
37	PRD43729	BASE BRACKET
38	PRD43730	GEAR BRACKET
40	SDSP2603Z	SCREW
41	PRD43776-01-01	TEPHRON SHEET
42	PRD43776-02-01	TEPHRON SHEET
44	PRD30030-87	PAD
45	Q03093-828	WASHER
46	PRD30030-71	PAD
47	Q03093-826	WASHER
48	PRD30030-72	PAD
51	PRD44177	C DOOR STOPPER
52	PRD44178	STOPPER
53	SDSP2603Z	SCREW, X2

8 CASSETTE HOUSING <M8>





Category	JVC part number	MARK
Grease	KANTO-G31KAV	CC

NOTE: The section marked in **CC** indicate lubrication and greasing areas.

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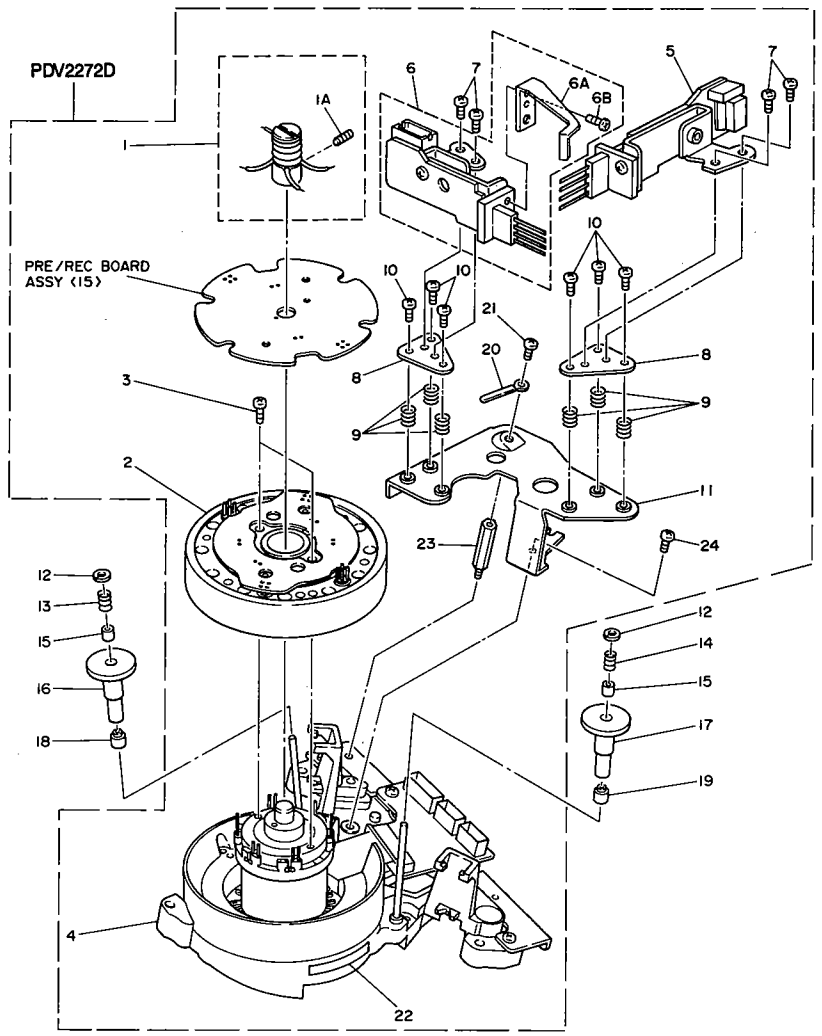
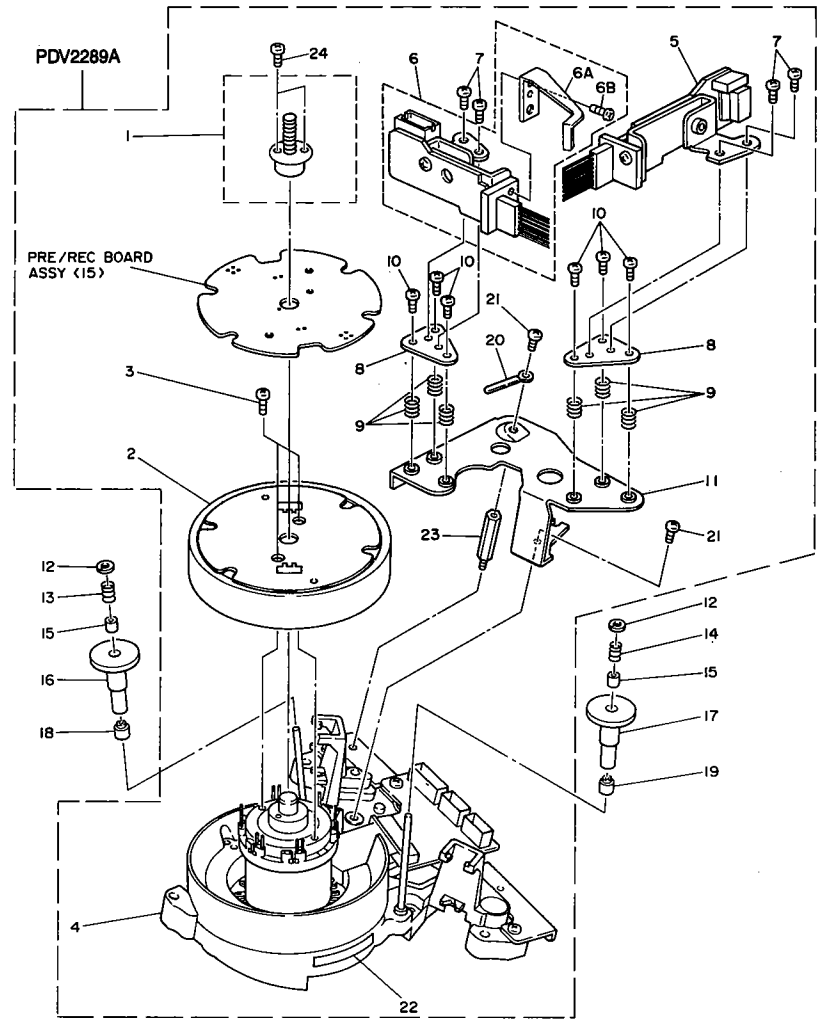
DRUM ASSEMBLY <M9A>

5.9.1 Drum assembly (BR-S822U/S622U/S522U) <M9A>



5.9.2 Drum assembly (BR-S525U) <M9B>



ASSEMBLY (S822U/S622U/S522U) M9A

M9AMM□□□

o.	PART No.	PART NAME, DESCRIPTION
**********		
UM ASSEMBLY (S822U/S622U/S522U) <M9A>		
	PDV2272D	DRUM ASSY
	PGZ01630	SLIP RING ASSY
	PGZ01872	SLIP RING ASSY
	YFS2603B	SET SCREW
	PRD20380B-1	UPPER DRUM ASSY
	PRD20380D	UPPER DRUM ASSY
	PDM4264A	DRUM SCREW ASSY, X2
	PRD20382D-9	LOWER DRUM MOTOR ASSY
	PRD20382D-8	LOWER DRUM MOTOR ASSY
	PRD43986A	BRUSH ASSY(A)
	PRD43986B	BRUSH ASSY(B)
	PRD44176	BRUSH PROTECTOR
	SPSP2006Z	SCREW
	BYS2605FS	S.BOLT, X4

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	8	PRD43978	M.PLATE, X2
	9	PRD30023-51	COMPRESSION SPRING, X6
	10	BYS2606FS	S.BOLT, X6
	11	PRD30921	BRUSH BASE
	12	PQM30017-25	SLIT WASHER, X2 NOT INCL
	13	PRD30023-42	COMPRESSION SPRING(S),NOT INCL
	14	PRD30023-43	COMP. SPRING(T), NOT INCL
	15	PRD43675	COLLAR, X2 NOT INCL
	16	PGZ01667	INERTIA ROLLER ASSY(S), NOT INCL
	17	PGZ01667-02	INERTIA ROLLER ASSY(T), NOT INCL
	18	PRD43675-02	COLLAR(S), NOT INCL
	19	PRD43675-03-01	COLLAR(T), NOT INCL
	20	PU49485-3	WIRE CLAMP
	21	PRD30027-04	SCREW
	22	PDM4067	PART NO. LABEL
	23	PRD43979	STUD
	24	PRD30027-04	SPECIAL SCREW

DRUM ASSEMBLY (S525U) M9B

M9BMM□□□

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
**********			
DRUM ASSEMBLY (S525U) <M9B>			
⚠	0	PDV2289A	DRUM ASSY
	1	PGZ01760-06	SLIP RING ASSY
	2	PRD20448A	UPPER DRUM ASSY
	3	PDM4264A	DRUM SCREW ASSY, X2
	4	PRD20382C-11	LOWER DRUM MOTOR ASSY
	5	PRD43938A	BRUSH SUB ASSY
	6	PRD43938B	BRUSH SUB AS(B)
	6A	PRD44176	BRUSH PROTECTOR
	6B	SPSP2006Z	SCREW
	7	BYS2605FS	S.BOLT, X4
	8	PRD43978	MOUNT PLATE, X2
	9	PRD30023-51	COMPRESSION SPRING, X6
	10	BYS2606FS	S.BOLT, X6

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	11	PRD30921-02	BRUSH BASE
	12	PQM30017-25	SLIT WASHER, X2 NOT INCL
	13	PRD30023-42	COMPRESSION SPRING(S) NOT INCL
	14	PRD30023-52	COMP SPRING (T) NOT INCL
	15	PRD43675	COLLAR, X2
	16	PGZ01667-04	INERTIA ROLLER ASSY(S)
	17	PGZ01667-03	INERTIA ROLLER ASSY(T), NOT INCL
	18	PRD43675-02	COLLAR (S) NOT INCL
	19	PRD43675-03-01	COLLAR (T) NOT INCL
	20	PU49485-3	WIRE CLAMP
	21	PRD30027-04	SPECIAL SCREW, X2
	22	PDM4067	PART NO. LABEL
	23	PRD43979	STUD
	24	SPBK1711M	SCREW, X2

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SECTION 6
ELECTRICAL PARTS LIST

Notes:

- Parts identified by the ⚠ symbol critical for safety. Replace only with parts having the specified parts numbers.

- Since this section only the following boards which are different from those of original models.
  - MOTHER-1 board
  - MOTHER-2 board
  - AUDIO-3 board
  - AVM/ON SCREEN board

  For other board assemblys, refer to the service manual No. 9246C for the BR-S822U/BR-S622U/BR-S522U, No. 9272 for the BR-S525U.

- In case Model Name(Example:S822U)indicate on the header or Part Name column of the P.C. board assembly lists, event the part or the P.C. board assembly is for exclusive use of the specified models.

  Example 1 :
  R147 QRSA08J-332YN RESISTOR, S822U/S622U 3.3 kΩ, 1/10W
  In this case, the resistor (R147) is used in the BR-S822U, the BR-S622U only.

  Example 2 :
  — AUDIO-6 BOARD ASS'Y, BR-S822U/BR-S622U —
  PWBA PRK30066A1 AUDIO-6 BOARD ASS'Y
  In the above case, the AUDIO-6 Board Ass'y is the circuit board assembly that exclusively used for the BR-S822U, the BR-S622U.

Parts without any remark are used in both the models in common.

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
- BR-S822U/BR-S622U/BR-S522U -		
MOTHER-1 BOARD ASSEMBLY <01>		
PWBA	PRK10113F-01	MOTHER-1 BOARD ASSY, S822/S622
PWBA	PRK10113B-02	MOTHER-1 BOARD ASSY, S522
CL1	PEME0802	CLAMP, ×7
CL2	PGZ01377-03	STYLE PIN, ×2
CN1	PGZ01783-44	FEMALE CONNECTOR
CN2	PGZ01783-44	FEMALE CONNECTOR
CN3	PGZ01783-44	FEMALE CONNECTOR
CN4	PGZ01783-44	FEMALE CONNECTOR
CN7	PGZ01783-44	FEMALE CONNECTOR
CN8	PGZ01783-44	FEMALE CONNECTOR
CN9	PU59513-8	CONNECTOR
CN10	PU59513-2	CONNECTOR
CN11	PU59513-8	CONNECTOR
CN12	PU59513-5	CONNECTOR
CN13	PU59513-6	CONNECTOR
CN14	PU59513-7	CONNECTOR
CN15	PU59513-4Y	CONNECTOR
CN17	PU59513-5	CONNECTOR
CN18	PU59513-8	CONNECTOR
CN19	PU59513-7	CONNECTOR
CN20	PU59513-2	CONNECTOR
CN21	PU60329-120	CONNECTOR
CN22	PU60329-120	CONNECTOR
CN23	PU59513-2R	CONNECTOR
CN24	PU59513-6	CONNECTOR
CN25	PU59513-2Y	CONNECTOR, S822/S622
CN26	PU59513-2R	CONNECTOR, S822/S622
CN27	PU59513-4	CONNECTOR
CN28	PU59513-2R	CONNECTOR
CN29	PU59513-2	CONNECTOR
CN30	PU59513-4R	CONNECTOR
CN31	PU59513-2	CONNECTOR
CN32	PU59513-5	CONNECTOR
CN33	PU59513-2	CONNECTOR
CN34	PU59513-2R	CONNECTOR
CN35	PU59513-5R	CONNECTOR
CN36	PU59513-2	CONNECTOR, S822/S622
CN37	PU59513-2R	CONNECTOR
CN38	PU59513-2	CONNECTOR
CN39	PU59513-2R	CONNECTOR
CN40	PU59513-2Y	CONNECTOR
CN41	PU59513-2	CONNECTOR
CN45	PU58844-2	CONNECTOR
CN80	PU59513-2	CONNECTOR

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
- BR-S525U -		
MOTHER-1 BOARD ASSEMBLY <01>		
PWBA	PRK10149D	MOTHER-1 BOARD ASSY
CL1	PEME0802	CLAMP, ×6
CN1	PGZ01783-44	FEMALE CONNECTOR
CN2	PGZ01783-44	FEMALE CONNECTOR
CN3	PGZ01783-44	FEMALE CONNECTOR
CN4	PGZ01783-44	FEMALE CONNECTOR
CN5	PGZ01783-44	CONNECTOR
CN6	PGZ01783-44	CONNECTOR
CN7	PGZ01783-44	CONNECTOR
CN8	PGZ01783-44	CONNECTOR
CN9	PU59513-8	CONNECTOR
CN10	PU59513-2	CONNECTOR
CN11	PU59513-8	CONNECTOR
CN12	PU59513-5	CONNECTOR
CN13	PU59513-6	CONNECTOR
CN14	PU59513-7	CONNECTOR
CN15	PU59513-4Y	CONNECTOR
CN17	PU59513-5	CONNECTOR
CN18	PU59513-8	CONNECTOR
CN19	PU59513-7	CONNECTOR
CN20	PU59513-2	CONNECTOR
CN21	PU60329-120	CONNECTOR
CN22	PU60329-120	CONNECTOR
CN23	PU59513-2R	CONNECTOR
CN24	PU59513-6	CONNECTOR
CN27	PU59513-4	CONNECTOR
CN28	PU59513-2R	CONNECTOR
CN29	PU59513-2	CONNECTOR
CN30	PU59513-4R	CONNECTOR
CN31	PU59513-2	CONNECTOR
CN32	PU59513-5	CONNECTOR
CN33	PU59513-2	CONNECTOR
CN34	PU59513-2R	CONNECTOR
CN35	PU59513-5R	CONNECTOR
CN37	PU59513-2R	CONNECTOR
CN38	PU59513-2	CONNECTOR
CN39	PU59513-2R	CONNECTOR
CN40	PU59513-2Y	CONNECTOR
CN41	PU59513-2	CONNECTOR
CN42	PU59513-2	CONNECTOR
CN43	PU59513-3	CONNECTOR
CN44	PU59513-2	CONNECTOR
CN45	PU58844-2	CONNECTOR
CN80	PU59513-2	CONNECTOR

MOTHER-2 BOARD ASSEMBLY <02>

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
PWBA	PRK10111F-01	MOTHER-2 BOARD ASSY, S822/S622
PWBA	PRK10111B-02	MOTHER-2 BOARD ASSY, S522
PWBA	PRK10111D-02	MOTHER-2 BOARD ASSY, S525
R1	QRD161J-151	RESISTOR 150Ω,1/6W
CL1	PEME0802	CLAMP, ×8
CL2	PGZ01377-03	STYLE PIN, ×3
SPC1	PRD42222	INSULATOR
SPC2	PRD30030-59	PAD
WR1	PGW0205-050200	FLAT WIRE, NOT INCLUDED
WR2	PGW0201-050201	PARALLEL WIRE, NOT INCLUDED
CN1	PGZ01783-64	FEMALE CONNECTOR
CN2	PGZ01783-64	FEMALE CONNECTOR
CN3	PGZ01783-64	FEMALE CONNECTOR
CN4	PGZ01783-64	FEMALE CONNECTOR
CN5	PGZ01783-64	FEMALE CONNECTOR
CN6	PGZ01783-64	FEMALE CONNECTOR
CN7	PGZ01783-64	FEMALE CONNECTOR
CN8	PGZ01783-64	FEMALE CONNECTOR
CN9	PGZ01783-64	FEMALE CONNECTOR
CN10	PGZ01783-64	FEMALE CONNECTOR
CN11	PU60329-120	CONNECTOR
CN12	PU59513-2	CONNECTOR
CN13	PU60329-120	CONNECTOR
CN14	PU59513-2Y	CONNECTOR, S822/S622
CN15	PU59513-7	CONNECTOR
CN16	PU59513-4	CONNECTOR
CN17	PU58844-6	CONNECTOR
CN18	PU59513-3	CONNECTOR
CN19	PU59513-2	CONNECTOR
CN20	PU58844-10	CONNECTOR
CN21	PU59513-8	CONNECTOR
CN22	PU59513-2	CONNECTOR
CN23	PU58844-9	CONNECTOR
CN24	PU59513-2	CONNECTOR, S822/S622
CN26	PU59513-2Y	CONNECTOR, S822/S622
CN27	PU59513-5	CONNECTOR
CN28	PU59513-4	CONNECTOR, S822/S622
CN29	PU59513-4	CONNECTOR
CN30	PU59513-6	CONNECTOR
CN31	PU59513-4	CONNECTOR
CN32	PU59513-4R	CONNECTOR
CN33	PU59513-4R	CONNECTOR, S822/S622
CN34	PU59513-4Y	CONNECTOR
CN36	PU59513-7	CONNECTOR
CN37	PU59513-5R	CONNECTOR
CN38	PU59513-8	CONNECTOR
CN41	PU59513-2	CONNECTOR, S822/S622
CN42	PU59513-4Y	CONNECTOR
CN44	PU59513-4Y	CONNECTOR
CN45	PU59513-4Y	CONNECTOR
CN46	PU59513-4	CONNECTOR
CN47	PU59513-5	CONNECTOR
CN48	PU59513-3	CONNECTOR
CN49	PU59513-3R	CONNECTOR
CN50	PU59513-8	CONNECTOR
CN51	PU58844-5	CONNECTOR
CN52	PU59513-6	CONNECTOR
CN53	PU59513-4R	CONNECTOR
CN54	PU59513-5R	CONNECTOR
CN55	PU59513-5	CONNECTOR
CN56	PU58844-4R	CONNECTOR
CN57	PU58844-4Y	CONNECTOR
CN58	PU58844-3	CONNECTOR
CN59	PU58844-4	CONNECTOR
CN60	PU58844-2	CONNECTOR
CN61	PU58844-4	CONNECTOR
CN62	PU58844-4R	CONNECTOR
CN63	PU58844-6	CONNECTOR
CN64	PEMC0769-004	CONNECTOR
CN65	PEMC0769-002	CONNECTOR
CN66	PU59513-2R	CONNECTOR, S822/S622
CN67	PU59513-2	CONNECTOR, S822/S622
CN68	PU59513-4R	CONNECTOR
CN69	PU59513-2	CONNECTOR, S822/S622
CN70	PU59513-6	CONNECTOR
CN71	PU59513-5	CONNECTOR
CN72	PU59513-7	CONNECTOR
CN73	PU59513-2	CONNECTOR
CN74	PU60251-4	CONNECTOR
CN75	PU59513-4	CONNECTOR, S522/S525
CN76	PU59513-2Y	CONNECTOR
CN77	PU59513-2	CONNECTOR
CN78	PU58844-7	CONNECTOR, S525
CN79	PU59513-2	CONNECTOR, S525
CN80	PU59513-2	CONNECTOR, S522/S525

AUDIO-3 BOARD ASSEMBLY <23>

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
PWBA	PRK10115A	AUDIO-3 BOARD ASSY, S822/S622
PWBA	PRK10115C	AUDIO-3 BOARD ASSY, S522/S525
IC1	JCP0038	IC
IC2	M5278D12	IC
IC3	M5278D05	IC
IC4	M5278D05	IC, S822/S622
IC5	M5278D09	IC, S822/S622
IC6	BA7743FS	IC
IC7	AN6041	IC, S822/S622
IC8	M5278L05	IC
IC9	TL082CP	IC, S822/S622

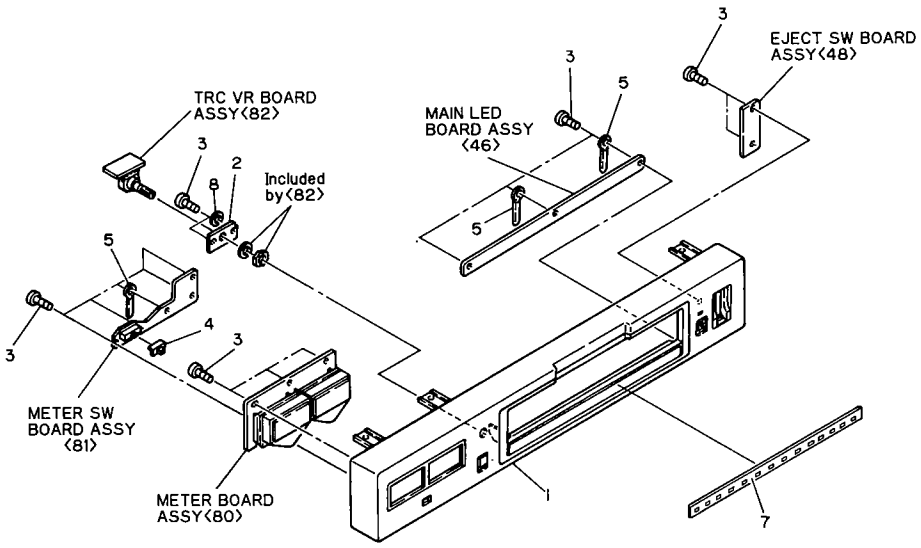
2 3

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
Q1	2SC2412K	TRANSISTOR
Q4	2SC2412K	TRANSISTOR, S822/S622
Q5	2SA1037K	TRANSISTOR, S822/S622
Q8	DTC124EK	TRANSISTOR
Q11	2SK30A-O	FE TRANSISTOR, S822/S622
Q12	2SK30A-O	FE TRANSISTOR, S822/S622
Q13	DTC124EK	TRANSISTOR, S822/S622
D1	1SS133	DIODE
D2	1SS133	DIODE, S822/S622
D3	1SS136	DIODE, S822/S622
D4	1SS136	DIODE, S822/S622
D5	1SS133	DIODE
R1	QRSA08J-432YN	RESISTOR, S822/S622 4.3kΩ,1/10W
R1	QRSA08J-103YN	RESISTOR, S522/S525 10kΩ,1/10W
R2	QRSA08J-432YN	RESISTOR, S822/S622 4.3kΩ,1/10W
R2	QRSA08J-103YN	RESISTOR, S522/S525 10kΩ,1/10W
R3	QRSA08J-332YN	RESISTOR, S822/S622 3.3kΩ,1/10W
R3	QRSA08J-103YN	RESISTOR, S522/S525 10kΩ,1/10W
R4	QRSA08J-332YN	RESISTOR, S822/S622 3.3kΩ,1/10W
R4	QRSA08J-103YN	RESISTOR, S522/S525 10kΩ,1/10W
R5	QRSA08J-0R0Y	RESISTOR 0Ω,1/10W
R7	NRVA62D-511N	RESISTOR 510Ω,1/16W
R8	NRVA62D-511N	RESISTOR 510Ω,1/16W
R9	QRSA08J-472YN	RESISTOR 4.7kΩ,1/10W
R10	QRSA08J-472YN	RESISTOR 4.7kΩ,1/10W
R11	QRSA08J-513YN	RESISTOR 51kΩ,1/10W
R12	QRSA08J-513YN	RESISTOR 51kΩ,1/10W
R13	QRSA08J-562YN	RESISTOR 5.6kΩ,1/10W
R14	QRSA08J-472YN	RESISTOR 4.7kΩ,1/10W
R15	QVZ3513-473	V RESISTOR 47kΩ
R16	QVZ3513-473	V RESISTOR 47kΩ
R17	QRSA08J-101YN	RESISTOR 100Ω,1/10W
R18	QRSA08J-101YN	RESISTOR 100Ω,1/10W
R21	QRSA08J-101YN	RESISTOR 100Ω,1/10W
R22	QRSA08J-101YN	RESISTOR 100Ω,1/10W
R23	QRSA08J-822YN	RESISTOR 8.2kΩ,1/10W
R24	QRSA08J-822YN	RESISTOR 8.2kΩ,1/10W
R25	QRSA08J-103YN	RESISTOR 10kΩ,1/10W
R26	QRSA08J-103YN	RESISTOR 10kΩ,1/10W
R27	QRSA08J-123YN	RESISTOR 12kΩ,1/10W
R28	QRSA08J-103YN	RESISTOR 10kΩ,1/10W
R29	QVZ3513-103	V RESISTOR 10kΩ
R30	QVZ3513-682	V RESISTOR 6.8kΩ
R33	QRSA08J-222YN	RESISTOR 2.2kΩ,1/10W
R34	QRSA08J-222YN	RESISTOR 2.2kΩ,1/10W
R35	QRSA08J-273YN	RESISTOR 27kΩ,1/10W
R36	QRSA08J-273YN	RESISTOR 27kΩ,1/10W
R37	QRSA08J-561YN	RESISTOR 560Ω,1/10W
R38	QRSA08J-750YN	RESISTOR 75Ω,1/10W
R39	QRSA08J-274YN	RESISTOR, S822/S622 270kΩ,1/10W
R40	QRSA08J-104YN	RESISTOR 100kΩ,1/10W
R41	QRSA08J-822YN	RESISTOR 8.2kΩ,1/10W
R42	QRSA08J-183YN	RESISTOR 18kΩ,1/10W
R43	QRSA08J-332YN	RESISTOR 3.3kΩ,1/10W

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
R44	QRSA08J-303YN	RESISTOR 30kΩ,1/10W
R45	QRSA08J-0R0Y	RESISTOR 0Ω,1/10W
R47	QRSA08J-103YN	RESISTOR 10kΩ,1/10W
R48	QRSA08J-473YN	RESISTOR 47kΩ,1/10W
R49	QRSA08J-102YN	RESISTOR 1kΩ,1/10W
R50	QRSA08J-102YN	RESISTOR 1kΩ,1/10W
R51	QRSA08J-682YN	RESISTOR, S822/S622 6.8kΩ,1/10W
R52	QRSA08J-682YN	RESISTOR 6.8kΩ,1/10W
R53	QRSA08J-392YN	RESISTOR 3.9kΩ,1/10W
R54	QRSA08J-472YN	RESISTOR 4.7kΩ,1/10W
R55	QVZ3513-153	V RESISTOR 15kΩ
R58	QRSA08J-102YN	RESISTOR, S822/S622 1kΩ,1/10W
R59	QRSA08J-122YN	RESISTOR 1.2kΩ,1/10W
R60	QRSA08J-122YN	RESISTOR 1.2kΩ,1/10W
R61	QRSA08J-152YN	RESISTOR 1.5kΩ,1/10W
R62	QRSA08J-152YN	RESISTOR 1.5kΩ,1/10W
R63	QRSA08J-8R2YN	RESISTOR, S822/S622 8.2Ω,1/10W
R64	QRSA08J-224YN	RESISTOR, S822/S622 220kΩ,1/10W
R67	QRSA08J-102YN	RESISTOR, S822/S622 1kΩ,1/10W
R75	QRSA08J-912YN	RESISTOR, S822/S622 9.1kΩ,1/10W
R76	QRSA08J-332YN	RESISTOR, S822/S622 3.3kΩ,1/10W
R77	QRSA08J-123YN	RESISTOR, S822/S622 12kΩ,1/10W
R78	QRSA08J-332YN	RESISTOR, S822/S622 3.3kΩ,1/10W
R78	QRSA08J-0R0Y	RESISTOR, S522/S525 0Ω,1/10W
R79	QRSA08J-333YN	RESISTOR, S822/S622 33kΩ,1/10W
R80	QRSA08J-123YN	RESISTOR, S822/S622 12kΩ,1/10W
R81	QRSA08J-102YN	RESISTOR, S822/S622 1kΩ,1/10W
R82	QRSA08J-102YN	RESISTOR, S822/S622 1kΩ,1/10W
R83	QRSA08J-561YN	RESISTOR, S822/S622 560Ω,1/10W
R84	QRSA08J-102YN	RESISTOR, S822/S622 1kΩ,1/10W
R85	QRSA08J-122YN	RESISTOR 1.2kΩ,1/10W
R86	QRSA08J-0R0Y	RESISTOR 0Ω,1/10W
R87	QRSA08J-684YN	RESISTOR, S822/S622 680kΩ,1/10W
R88	QRSA08J-684YN	RESISTOR, S822/S622 680kΩ,1/10W
R89	QRSA08J-684YN	RESISTOR, S822/S622 680kΩ,1/10W
R90	QRSA08J-684YN	RESISTOR, S822/S622 680kΩ,1/10W
R91	QRSA08J-683YN	RESISTOR, S822/S622 68kΩ,1/10W
R92	QRSA08J-683YN	RESISTOR, S822/S622 68kΩ,1/10W
C1	QETC1CM-106ZE	E CAPACITOR, S822/S622 10μF,16V
C2	QETC1CM-106ZE	E CAPACITOR, S822/S622 10μF,16V
C3	QETC1CM-106ZE	E CAPACITOR 10μF,16V
C4	QETC1CM-106ZE	E CAPACITOR 10μF,16V
C5	QCYA1HK-103	CAPACITOR 0.01μF,50V
C6	QCYA1HK-103	CAPACITOR 0.01μF,50V
C7	QCYA1HK-103	CAPACITOR 0.01μF,50V
C8	QCYA1HK-103	CAPACITOR 0.01μF,50V
C9	QETC1AM-336ZE	E CAPACITOR 33μF,10V
C10	QETC1AM-336ZE	E CAPACITOR 33μF,10V
C11	QFN31HJ-473	M CAPACITOR 0.047μF,50V
C12	QFN31HJ-473	M CAPACITOR 0.047μF,50V
C13	QETC1HM-225	E CAPACITOR 2.2μF,50V
C14	QETC1HM-225	E CAPACITOR 2.2μF,50V
C15	QFN31HJ-333	M CAPACITOR 0.033μF,50V
C16	QFN31HJ-333	M CAPACITOR 0.033μF,50V
C17	PU59499	BUS WIRE, S822/S622

5.10 FRONT PANEL assembly

5.10.1 Cassette panel assembly <MA>



CASSETTE PANEL ASSEMBLY Ⓜ Ⓐ

ⓂⒶⓂⓂ□□□□

#⚠ REF No.	PART No.	PART NAME, DESCRIPTION

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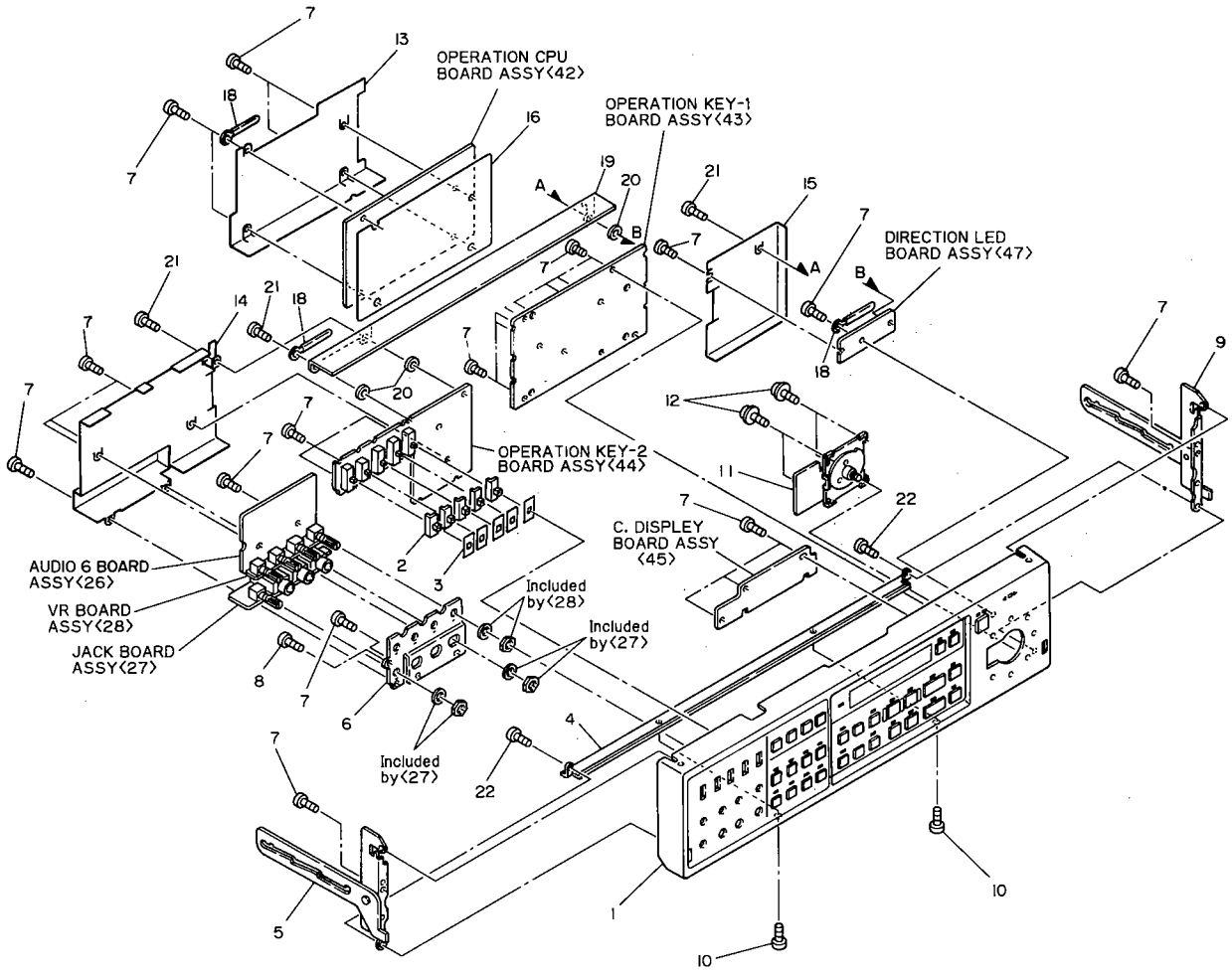
CASSETTE PANEL ASSEMBLY <MA>

1	PRD10229B-02	CASSETTE PANEL ASSY, S822U
1	PRD10229D-02	CASSETTE PANEL ASSY, S622U
1	PRD10229F-02	CASSETTE PANEL ASSY, S522U
1	PRD10229J-02	CASSETTE PANEL ASSY, S525U
2	PRD43427	VR BRACKET
3	SBSF2606Z	SCREW, X15
4	PRD42927A	SLIDE KNOB ASSY
5	PU49485-4	WIRE CLAMP, X3
7	PRD30726	WINDOW, S822U/S622U
7	PRD30726-02	WINDOW, S522U/S525U
8	WNB2600N	WASHER

5.10.2 Operation panel assembly <MB>



OPERATION PANEL ASSEMBLY [M][B]

[M][B][M][M]□□□□

#⚠ REF No.	PART No.	PART NAME, DESCRIPTION

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OPERATION PANEL ASSEMBLY <MB>

1	PRD10230A-05	OPERATION PANEL ASSY, S822U
1	PRD10259A-06	OPERATION PANEL ASSY, S622U
1	PRD10259E-06	OPERATION PANEL ASSY, S522U
1	PRD10259F-06	OPERATION PANEL ASSY, S525U
2	PRD42830	SLIDE KNOB, X5, S822U/S622U
2	PRD42830	SLIDE KNOB, X4, S522U/S525U
3	PRD43146	KNOB PLATE, X5, S822U/S622U
3	PRD43146	KNOB PLATE, X4, S522U/S525U
4	PRD20379	OPERATION BRACKET
5	PRD30732A-01	SIDE BRACKET(L) ASSY
6	PRD43428	VR & JACK BRACKET
7	SBSF2606Z	SCREW, X28
8	LPSP3006Z	ASSY SCREW
9	PRD30733A-01	SIDE BRACKET(R) ASSY
10	PRD43194	SPECIAL SCREW, X2
11	PGS20128H-02	SEARCH/JOG CONTROL ASSY, 822U/622U/522U
11	PGS20933A	SEARCH/JOG CONTROL ASSY, S525U
12	DPSP3010Z	SCREW, X4, S822U/S622U/S522U
12	DPSP3016Z	SCREW, X4, S525U
13	PRD30774-01-01	PROTECTOR(A)
14	PRD30775-01-02	PROTECTOR(B), S822U/S622U
14	PRD30775-02-03	PROTECTOR(B), S522U/S525U
15	PRD43477-01-01	PROTECTOR(C)
16	PRD43478	INSULATOR
18	PU49485-4	WIRE CLAMP, X3
19	PRD30850	OPERATION BRACKET
20	PRD30084	WASHER, X3
21	SDSF2610Z	SCREW, X3
22	SDSF2608Z	SCREW, X2

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
C17	QETC1AM-227ZE	E CAPACITOR, S522/S525 220μF,10V
C18	PU59499	BUS WIRE, S822/S622
C18	QETC1AM-227ZE	E CAPACITOR, S522/S525 220μF,10V
C19	QETC1CM-106ZE	E CAPACITOR 10μF,16V
C20	QETC1CM-106ZE	E CAPACITOR 10μF,16V
C21	QCYA1HK-103	CAPACITOR 0.01μF,50V
C22	QCYA1HK-103	CAPACITOR 0.01μF,50V
C23	QETC1HM-105ZE	E CAPACITOR 1μF,50V
C24	QETC1HM-105ZE	E CAPACITOR 1μF,50V
C25	QFN31HJ-103	M CAPACITOR 0.01μF,50V
C26	QFN31HJ-103	M CAPACITOR 0.01μF,50V
C27	QETC0JM-107ZE	E CAPACITOR 100μF,6.3V
C28	QETC0JM-107ZE	E CAPACITOR 100μF,6.3V
C29	QCYA1HK-102	CAPACITOR 0.001μF,50V
C30	QCYA1HK-102	CAPACITOR 0.001μF,50V
C31	QFN31HJ-822	M CAPACITOR 0.0082μF,50V
C32	QFN31HJ-822	M CAPACITOR 0.0082μF,50V
C33	QFN31HJ-104	M CAPACITOR 0.1μF,50V
C34	QFN31HJ-104	M CAPACITOR 0.1μF,50V
C35	QFN31HJ-223	M CAPACITOR 0.022μF,50V
C36	QFN31HJ-223	M CAPACITOR 0.022μF,50V
C37	QCTA1CH-821	CAPACITOR 820pF,16V
C38	QCTA1CH-821	CAPACITOR 820pF,16V
C39	QFN31HJ-392	M CAPACITOR 0.0039μF,50V
C40	QFN31HJ-392	M CAPACITOR 0.0039μF,50V
C41	QCYA1HK-103	CAPACITOR 0.01μF,50V
C42	QCYA1HK-103	CAPACITOR 0.01μF,50V
C43	QCYA1HK-103	CAPACITOR 0.01μF,50V
C44	QCYA1HK-103	CAPACITOR 0.01μF,50V
C45	QCYA1HK-103	CAPACITOR 0.01μF,50V
C46	QETC1HM-105ZE	E CAPACITOR 1μF,50V
C47	QCTA1CH-471	CAPACITOR 470pF,16V
C48	QCTA1CH-561	CAPACITOR 560pF,16V
C49	QCYA1EK-104	CAPACITOR 0.1μF,25V
C50	QEE81AM-476	TANTAL CAPACITOR 47μF,10V
C51	QCTA1CH-101	CAPACITOR 100pF,16V
C52	QCTA1CH-101	CAPACITOR 100pF,16V
C53	QCYA1HK-103	CAPACITOR 0.01μF,50V
C54	QCYA1EK-473	CAPACITOR 0.047μF,25V
C55	QETC0JM-107ZE	E CAPACITOR 100μF,6.3V
C56	QETC0JM-107ZE	E CAPACITOR 100μF,6.3V
C57	QETC1AM-107ZE	E CAPACITOR 100μF,10V
C58	QETC1AM-476	E CAPACITOR 47μF,10V
C59	QETC1EM-337ZE	E CAPACITOR 330μF,25V
C60	QCYA1HK-103	CAPACITOR 0.01μF,50V
C61	QETC1EM-107ZE	E CAPACITOR 100μF,25V
C62	QCYA1HK-103	CAPACITOR 0.01μF,50V
C63	QEE81AM-476	TANTAL CAPACITOR 47μF,10V
C64	QCYA1HK-103	CAPACITOR 0.01μF,50V
C65	QCYA1HK-102	CAPACITOR 0.001μF,50V
C67	QCYA1HK-103	CAPACITOR 0.01μF,50V
C68	QCYA1HK-103	CAPACITOR 0.01μF,50V
C69	QCYA1HK-103	CAPACITOR 0.01μF,50V
C70	QEE81AM-107	E CAPACITOR 100μF,10V
C71	QCYA1HK-103	CAPACITOR 0.01μF,50V
C72	QCYA1HK-103	CAPACITOR 0.01μF,50V
C73	QCYA1HK-103	CAPACITOR, S822/S622 0.01μF,50V

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
C74	QEE81AM-107	E CAPACITOR, S822/S622100μF,10V
C75	QETC1HM-105ZE	E CAPACITOR 1μF,50V
C76	QETC1HM-105ZE	E CAPACITOR 1μF,50V
C77	QCYA1HK-102	CAPACITOR 0.001μF,50V
C78	QCYA1HK-102	CAPACITOR 0.001μF,50V
C79	QCTA1CH-121	CAPACITOR 120pF,16V
C80	QCTA1CH-121	CAPACITOR 120pF,16V
C81	QCTA1CH-101	CAPACITOR, S822/S622 100pF,16V
C82	QFN31HJ-104	M CAPACITOR, S822/S622 0.1μF,50V
C85	QCYA1HK-103	CAPACITOR 0.01μF,50V
C86	QCYA1HK-103	CAPACITOR, S822/S622 0.01μF,50V
C87	QEE81CM-476	T. CAPACITOR, S822/S622 47μF,16V
C88	QCYA1HK-103	CAPACITOR, S822/S622 0.01μF,50V
C91	QETC1EM-476ZE	E CAPACITOR, S822/S622 47μF,25V
C95	QCYA1HK-103	CAPACITOR, S822/S622 0.01μF,50V
C96	QCYA1HK-103	CAPACITOR, S822/S622 0.01μF,50V
C97	QCYA1HK-222	CAPACITOR, S822/S622 0.0022μF,50V
C98	QCYA1HK-222	CAPACITOR, S822/S622 0.0022μF,50V
C99	QCYA1HK-222	CAPACITOR, S822/S622 0.0022μF,50V
C100	QCYA1HK-222	CAPACITOR, S822/S622 0.0022μF,50V
C101	QETC1CM-476	E CAPACITOR, S822/S622 47μF,16V
C102	QCYA1HK-103	CAPACITOR, S822/S622 0.01μF,50V
C103	QCTA1CH-121	CAPACITOR, S822/S622 120pF,16V
C104	QCYA1HK-103	CAPACITOR, S822/S622 0.01μF,50V
C105	QCYA1HK-103	CAPACITOR, S822/S622 0.01μF,50V
C106	QETC1CM-476ZE	E CAPACITOR, S822/S622 47μF,16V
C108	QCYA1HK-333	CAPACITOR 0.033μF,50V
C109	QCTA1CH-101	CAPACITOR, S822/S622 100pF,16V
C110	QETC1CM-476ZE	E CAPACITOR, S822/S622 47μF,16V
C111	QFN31HJ-104	M CAPACITOR, S822/S622 0.1μF,50V
C112	QFN31HJ-104	M CAPACITOR, S822/S622 0.1μF,50V
C113	QCYA1HK-103	CAPACITOR 0.01μF,50V
C114	QCYA1HK-103	CAPACITOR 0.01μF,50V
L1	PU30284-1R	COIL 100μH
L2	PU30284-1R	COIL 100μH
L6	PU48530-101K	COIL 100μH
L7	PU48530-101K	COIL, S822/S622 100μH
BPF3	PU60396	BAND PASS FILTER, ×2 (BPF3, 4)
⚠ K1	PGZ00354	FERRATE BEADS, ×2 (K1, K2)
EJ1	PGZ00582	EJECTOR, ×2
STK1	PRD30072-58	STICKER
TP1	PU54983	TEST PIN, ×16
CN1	PGZ00421-64	MALE CONNECTOR
CN2	PU58844-6	CONNECTOR

AV M/ONSC BOARD ASSY <41>

#⚠REF No.	PART No.	PART NAME, DESCRIPTION
PWBA	PRK20089E	AV M/ONSC BOARD ASSY
IC2	TC74HC4066AP	IC
IC3	NJM2233BD	IC
IC4	M50554-263SP	IC
IC5	M52684AP	IC
IC6	NJM2233BD	IC
IC7	M52684AP	IC
IC9	UPC319C	IC
IC10	TC74HC00AP	IC
IC11	TC4013BP	IC
IC12	M51957BL	IC
IC13	UPD75116CW-A03	IC
IC14	M54519P	IC
IC15	M54519P	IC
IC17	TC74HC00AP	IC
IC18	M5278D12	IC
IC19	M5278L05	IC
IC20	UPC78N05	IC
Q1	2SC1740S(QRS)	TRANSISTOR
Q2	2SA933S(RS)	TRANSISTOR
Q3	2SA933S(RS)	TRANSISTOR
Q4	2SC1740S(QRS)	TRANSISTOR
Q5	2SC1740S(QRS)	TRANSISTOR
Q6	2SC1740S(QRS)	TRANSISTOR
Q7	2SC1740S(QRS)	TRANSISTOR
Q8	2SC1740S(QRS)	TRANSISTOR
Q9	2SA933S(RS)	TRANSISTOR
Q10	2SA933S(RS)	TRANSISTOR
Q11	2SC1740S(QRS)	TRANSISTOR
Q12	2SC1740S(QRS)	TRANSISTOR
Q13	2SA933S(RS)	TRANSISTOR
Q14	2SA933S(RS)	TRANSISTOR
Q15	2SA933S(RS)	TRANSISTOR
Q16	2SC1740S(QRS)	TRANSISTOR
Q17	2SC1740S(QRS)	TRANSISTOR
Q18	2SC1740S(QRS)	TRANSISTOR
Q19	2SC1740S(QRS)	TRANSISTOR
Q20	2SC1740S(QRS)	TRANSISTOR
Q21	2SC1740S(QRS)	TRANSISTOR
Q22	2SC1740S(QRS)	TRANSISTOR
D1	1SS133	DIODE
D2	1SS133	DIODE
D3	1SS133	DIODE
D5	MA27TB	DIODE
D6	1SS133	DIODE
D7	1SS133	DIODE
D8	1SS133	DIODE
D9	1SS133	DIODE
D10	1SS133	DIODE
D11	RD7.5EB2	ZENER DIODE

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
R2	QRD161J-333	RESISTOR	33kΩ,1/6W
R3	QRD161J-123	RESISTOR	12kΩ,1/6W
R4	QRD161J-181	RESISTOR	180Ω,1/6W
R5	QRV141F-5600AY	CMF RESISTOR	560Ω,1/4W
R6	QRV141F-3300AY	CMF RESISTOR	330Ω,1/4W
R7	QRV141F-3300AY	CMF RESISTOR	330Ω,1/4W
R8	QRV141F-4700AY	CMF RESISTOR	470Ω,1/4W
R9	QRD161J-182	RESISTOR	1.8kΩ,1/6W
R10	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R11	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R12	QRD161J-561	RESISTOR	560Ω,1/6W
R13	QRD161J-561	RESISTOR	560Ω,1/6W
R16	QRD161J-102	RESISTOR	1kΩ,1/6W
R17	QRD161J-561	RESISTOR	560Ω,1/6W
R18	QRD161J-332	RESISTOR	3.3kΩ,1/6W
R19	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R20	QRD161J-332	RESISTOR	3.3kΩ,1/6W
R21	QRD161J-391	RESISTOR	390Ω,1/6W
R22	QRD161J-102	RESISTOR	1kΩ,1/6W
R23	QRD161J-681	RESISTOR	680Ω,1/6W
R24	QRD161J-102	RESISTOR	1kΩ,1/6W
R25	QRD161J-103	RESISTOR	10kΩ,1/6W
R26	QRD161J-221	RESISTOR	220Ω,1/6W
R27	QRD161J-103	RESISTOR	10kΩ,1/6W
R28	QRD161J-102	RESISTOR	1kΩ,1/6W
R29	QRD161J-681	RESISTOR	680Ω,1/6W
R30	QRD161J-471	RESISTOR	470Ω,1/6W
R32	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R34	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R35	QRD161J-102	RESISTOR	1kΩ,1/6W
R36	QRD161J-102	RESISTOR	1kΩ,1/6W
R37	QRD161J-681	RESISTOR	680Ω,1/6W
R38	QRD161J-561	RESISTOR	560Ω,1/6W
R39	QRD161J-393	RESISTOR	39kΩ,1/6W
R40	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R41	QRD161J-271	RESISTOR	270Ω,1/6W
R42	QRD161J-103	RESISTOR	10kΩ,1/6W
R43	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R44	QRD161J-223	RESISTOR	22kΩ,1/6W
R45	QRD161J-273	RESISTOR	27kΩ,1/6W
R46	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R47	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R48	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R49	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R50	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R51	QRD161J-101	RESISTOR	100Ω,1/6W
R52	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R53	QRD161J-183	RESISTOR	18kΩ,1/6W
R54	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R55	QRD161J-391	RESISTOR	390Ω,1/6W
R56	QRD161J-473	RESISTOR	47kΩ,1/6W
R57	QRD161J-0R0	RESISTOR	0Ω,1/6W
R58	QRD161J-103	RESISTOR	10kΩ,1/6W
R59	QRD161J-561	RESISTOR	560Ω,1/6W
R60	QRD161J-561	RESISTOR	560Ω,1/6W
R61	QRD161J-181	RESISTOR	180Ω,1/6W
R62	QRD161J-223	RESISTOR	22kΩ,1/6W

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
R63	QRD161J-223	RESISTOR	22kΩ,1/6W
R64	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R66	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R67	QRD161J-393	RESISTOR	39kΩ,1/6W
R68	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R69	QRD161J-271	RESISTOR	270Ω,1/6W
R70	QRD161J-103	RESISTOR	10kΩ,1/6W
R71	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R72	QRD161J-473	RESISTOR	47kΩ,1/6W
R73	QRD161J-104	RESISTOR	100kΩ,1/6W
R74	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R77	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R78	QRD161J-123	RESISTOR	12kΩ,1/6W
R79	QRD161J-123	RESISTOR	12kΩ,1/6W
R80	QRD161J-102	RESISTOR	1kΩ,1/6W
R81	QRD161J-333	RESISTOR	33kΩ,1/6W
R82	QRD161J-273	RESISTOR	27kΩ,1/6W
R83	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R84	QRD161J-102	RESISTOR	1kΩ,1/6W
R85	QRD161J-102	RESISTOR	1kΩ,1/6W
R86	QRD161J-271	RESISTOR	270Ω,1/6W
R87	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R88	QRD161J-103	RESISTOR	10kΩ,1/6W
R89	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R90	QRD161J-271	RESISTOR	270Ω,1/6W
R91	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R92	QRD161J-102	RESISTOR	1kΩ,1/6W
R93	QRD161J-821	RESISTOR	820Ω,1/6W
R94	QRD161J-331	RESISTOR	330Ω,1/6W
R95	QRD161J-681	RESISTOR	680Ω,1/6W
R97	QRD161J-182	RESISTOR	1.8kΩ,1/6W
R98	QRD161J-102	RESISTOR	1kΩ,1/6W
R99	QRD161J-473	RESISTOR	47kΩ,1/6W
R100	QRD161J-681	RESISTOR	680Ω,1/6W
R103	QRD161J-104	RESISTOR	100kΩ,1/6W
R104	QRD161J-104	RESISTOR	100kΩ,1/6W
R105	QRD161J-473	RESISTOR	47kΩ,1/6W
R106	QRD161J-183	RESISTOR	18kΩ,1/6W
R107	QRD161J-103	RESISTOR	10kΩ,1/6W
R108	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R109	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R110	QRD161J-471	RESISTOR	470Ω,1/6W
R111	QRD161J-471	RESISTOR	470Ω,1/6W
R112	QRD161J-471	RESISTOR	470Ω,1/6W
R113	QRD161J-471	RESISTOR	470Ω,1/6W
R114	QRD161J-471	RESISTOR	470Ω,1/6W
R115	QRD161J-471	RESISTOR	470Ω,1/6W
R116	QRD161J-471	RESISTOR	470Ω,1/6W
R117	QRD161J-471	RESISTOR	470Ω,1/6W
R118	QRD161J-121	RESISTOR	120Ω,1/6W
R119	QRD161J-121	RESISTOR	120Ω,1/6W
R120	QRD161J-121	RESISTOR	120Ω,1/6W
R121	QRD161J-121	RESISTOR	120Ω,1/6W
R122	QRD161J-121	RESISTOR	120Ω,1/6W
R123	QRD161J-121	RESISTOR	120Ω,1/6W
R124	QRD161J-121	RESISTOR	120Ω,1/6W
R125	QRD161J-121	RESISTOR	120Ω,1/6W

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
R126	QRD161J-181	RESISTOR	180Ω,1/6W
R127	QRD161J-473	RESISTOR	47kΩ,1/6W
R136	QRD161J-181	RESISTOR	180Ω,1/6W
R137	QRD161J-103	RESISTOR	10kΩ,1/6W
R138	QRD161J-103	RESISTOR	10kΩ,1/6W
R139	QRD161J-181	RESISTOR	180Ω,1/6W
⚠ R140	PU52108-2R2	POSITIVE THERMISTOR	
R141	QRD161J-103	RESISTOR	10kΩ,1/6W
R142	QRD161J-103	RESISTOR	10kΩ,1/6W
R143	QRD161J-154	RESISTOR	150kΩ,1/6W
R144	QRD161J-104	RESISTOR	100kΩ,1/6W
R1001	QVZ3513-102	V RESISTOR	1kΩ
RA1	EXB-P88103M	NETWORK RESISTOR	
C2	QETC1CM-107	E CAPACITOR	100μF,16V
C3	QETC1CM-106	E CAPACITOR	10μF,16V
C4	QETC1AM-107	E CAPACITOR	100μF,10V
C6	QCC31CK-104	CAPACITOR	0.1μF,16V
C7	QETC1AM-107	E CAPACITOR	100μF,10V
C8	QETC1AM-107	E CAPACITOR	100μF,10V
C9	QCC31CK-104	CAPACITOR	0.1μF,16V
C11	QCS31HJ-220	CAPACITOR	22pF,50V
C13	QCS31HJ-560	CAPACITOR	56pF,50V
C14	QCS31HJ-150	CAPACITOR	15pF,50V
C15	QETC1AM-107	E CAPACITOR	100μF,10V
C16	QCF31HP-103	CAPACITOR	0.01μF,50V
C17	QFN31HJ-222	M CAPACITOR	0.0022μF,50V
C18	QETC1HM-105	E CAPACITOR	1μF,50V
C20	QCS31HJ-220	CAPACITOR	22pF,50V
C21	QFN31HJ-103	M CAPACITOR	0.01μF,50V
C22	QFN31HJ-152	M CAPACITOR	0.0015μF,50V
C23	QETC1EM-475	E CAPACITOR	4.7μF,25V
C24	QCS31HJ-390	CAPACITOR	39pF,50V
C25	QCS31HJ-121	CAPACITOR	120pF,50V
C26	QETC1CM-106	E CAPACITOR	10μF,16V
C27	QETC1HM-474	E CAPACITOR	0.47μF,50V
C28	QETC1AM-108	E CAPACITOR	1000μF,10V
C29	QETC1AM-108	E CAPACITOR	1000μF,10V
C30	QETC1AM-107	E CAPACITOR	100μF,10V
C31	QETC1AM-107	E CAPACITOR	100μF,10V
C32	QETC1AM-107	E CAPACITOR	100μF,10V
C33	QCC31CK-104	CAPACITOR	0.1μF,16V
C35	QFN31HJ-222	M CAPACITOR	0.0022μF,50V
C36	QCC31CK-104	CAPACITOR	0.1μF,16V
C37	QCS31HJ-220	CAPACITOR	22pF,50V
C38	QFN31HJ-103	M CAPACITOR	0.01μF,50V
C39	QFN31HJ-152	M CAPACITOR	0.0015μF,50V
C40	QETC1HM-475	E CAPACITOR	4.7μF,50V
C43	QCC31CK-104	CAPACITOR	0.1μF,16V
C46	QETC1CM-107	E CAPACITOR	100μF,16V
C47	QETC1AM-107	E CAPACITOR	100μF,10V
C48	QCS31HJ-101	CAPACITOR	100pF,50V
C49	QCS31HJ-101	CAPACITOR	100pF,50V
C50	QETC1AM-107	E CAPACITOR	100μF,10V

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#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	C51	QETC1AM-476	E CAPACITOR	47μF,10V
	C52	QETC1HM-474	E CAPACITOR	0.47μF,50V
	C53	QETC1HM-474	E CAPACITOR	0.47μF,50V
	C54	QETC1AM-107	E CAPACITOR	100μF,10V
	C56	QCS31HJ-100	CAPACITOR	10pF,50V
	C58	QETC1HM-104	E CAPACITOR	0.1μF,50V
	C59	QETC1CM-476	E CAPACITOR	47μF,16V
	C60	QCC31EK-104	CAPACITOR	0.1μF,25V
	C61	QCC31CK-104	CAPACITOR	0.1μF,16V
	C62	QETC1CM-107	E CAPACITOR	100μF,16V
	C63	QETC1AM-476	E CAPACITOR	47μF,10V
	C64	QCC31CK-104	CAPACITOR	0.1μF,16V
	C65	QCC31CK-104	CAPACITOR	0.1μF,16V
	C66	QETC1AM-107	E CAPACITOR	100μF,10V
	C67	QETC1AM-107	E CAPACITOR	100μF,10V
	C68	QCC31CK-104	CAPACITOR	0.1μF,16V
	C69	QCC31CK-104	CAPACITOR	0.1μF,16V
	C70	QETC1AM-476	E CAPACITOR	47μF,10V
	C72	QETC1HM-105	E CAPACITOR	1μF,50V
	C73	QCC31CK-104	CAPACITOR	0.1μF,16V
	C74	QCC31CK-104	CAPACITOR	0.1μF,16V
	C75	QCC31CK-104	CAPACITOR	0.1μF,16V
	C76	QCC31CK-104	CAPACITOR	0.1μF,16V
	C80	QETC1HM-225	E CAPACITOR	2.2μF,50V
	C83	QCC31CK-104	CAPACITOR	0.1μF,16V
	C84	QETC1AM-107	E CAPACITOR	100μF,10V
	C85	QFN31HJ-103	M CAPACITOR	0.01μF,50V
	C86	QFN31HJ-103	M CAPACITOR	0.01μF,50V
	C88	QCS31HJ-270	CAPACITOR	27pF,50V
	C89	QCS31HJ-270	CAPACITOR	27pF,50V
	C99	QCC31CK-104	CAPACITOR	0.1μF,16V
	C100	QCS31HJ-180	CAPACITOR	18pF,50V
	C101	PU57672-200	TRIMMER CAPACITOR	20pF
	C102	PU57672-300	TRIMMER CAPACITOR	30pF
	C105	QCF31HP-103	CAPACITOR	0.01μF,50V
	C107	QCS31HJ-271	CAPACITOR	270pF,50V
	C108	QCS31HJ-680	CAPACITOR	68pF,50V
	C109	QETC1CM-107	E CAPACITOR	100μF,16V
	L1	PU48530-220J	COIL, ×3 (L1, L5, L6)	22μH
	L2	PU48530-471J	COIL	470μH
	L3	PU48530-221J	COIL	220μH
⚠	X1	PGZ00898	CRYSTAL RESONATOR	
⚠	X2	PGZ00937	CERAMIC FILTER	
⚠	X3	PGZ00937	CERAMIC FILTER	
⚠	X5	PU60784	RESONATOR	
⚠	K1	PGZ00354	FERRATE BEADS, ×3	
	EJ1	PGZ00582	EJECTOR, ×2	
	STK1	PRD30072-57	STICKER	

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	SLD1	PRD30781-02-03	SHIELD PLATE
	RV1	PU53276	PLASTIC RIVET, ×4
	TP1	PU54983	TEST PIN, ×20
	CN1	PGZ00421-64	MALE CONNECTOR

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